Volume 168 No. 13

Oil, Paint and Drug Reporter

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Chemical Trade Seen Breaking All Records

The chemical industry will set new records for sales volume, production and employment this year, the chemical and rubber division of the Business and Defense Services Administration predicted last week. New records for the year will also be established in product output, consumption and sales volume in the rubber industry, it was stated.

The agency estimated that the sales volume for the year for chemicals alone will approximate $23,500,000,000, a gain of 20 percent over the 1954 record sales, if the current sales volume continues through the remainder of the year. Chemical production will top the previous output peak in 1954 by some 13 percent, an increase much in excess of expectations at the start of 1955, while employment will reach a new high of approximately 810,000.

Chemical Spending Down

Capital expenditures of the industry, however, will be down from the previous year and the peak year of 1953 when they totaled $1,400,000,000. The division estimates expenditures for 1955 for new plants and equipment at around $950,000,000. Earlier estimates of the Office of Business Economics had the chemicals and allied products industry capital expenditures scheduled at $1,032,000,000 for the year, but chemical division officials said that history shows that there is always a lag between scheduled expenditures and actual expenditures, due probably to the complex construction work involved in the industry.

The value of chemical manufacturers' inventories, which was the equivalent of almost two months of sales at the end of 1954, dropped to one and a half months by June, 1955, a 21 percent decline. A moderate degree of inventory buildup is expected during the rest of 1955 to support adequately the present high sales volume.

Competition for markets will become much keener, the division said, as a result of increased domestic costs, additional capacity from newly-built plants and

—Continued on page 61

Penicillin V Marketing Is Authorized by FDA

The Food and Drug Administration has amended its antibiotic regulations to authorize the marketing of the new penicillin form V, which has the advantage of producing a higher level of penicillin than the other types when administered orally.

Patent rights to the product are owned by Eli Lilly & Co., Indianapolis, Ind. Lilly and Wyeth Laboratories, Inc., Marietta, Pa., are the only two current producers. The amendments to the regulations permit the marketing of penicillin V in tablet and capsul forms with a certification period of twenty-four months.

Para-Aminosalicylic Acid Imports Are Investigated

Imports of p-aminosalicylic acid and its salts are under investigation by the Tariff Commission to determine whether the concessions granted on the product in the Torquay agreement of 1951 are causing imports in such quantities as to threaten serious injury to domestic producers.

The inquiry is being made upon an application filed with the commission by the Sumner Chemical Company, New York, under the "escape clause" of the trade agreement law. The inquiry is restricted to imports of the acid in bulk quantities and does not relate to dosage forms.

p-Aminosalicylic acid and its salts is dutiable under paragraph 28(a) of the tariff act of 1930 at the rate of 7 cents per pound plus 45 percent ad valorem. The duty was reduced nearly in half in the Torquay agreement to 3½ cents a pound plus 25 percent ad valorem.

Robinson-Patman Hearings Due to Start on October 31

The small business committee of the house will hold hearings starting October 31 on the Robinson-Patman act and related problems, chairman Wright Patman of Texas announced last week.

Mr. Patman said, "We want to know more about what the law enforcement agencies are doing regarding the Robinson-Patman act and related antimonopoly laws. Frequently it is said that there is laxity in the enforcement of these laws. If that proves to be true, we want to know why. We shall try to determine what factors have operated against vigorous enforcement. Do the agencies fully understand their responsibilities regarding the enforcement of these laws? Have they evidenced any reluctance to carry out their responsibilities? Have improper influences been at work upon and within the agencies?

"We shall give some attention to the plans law violators, would be violators and their representatives, have hatched and utilized to mislead the public concerning the significance of price discrimination and the purposes of the Robinson-Patman act. The public has been told that the practice of price discrimination promotes competition instead of monopoly. Representatives of the law violators have argued that our antitrust laws which prohibit price discriminations are laws against competition. Therefore, they argue that those laws should be changed," Rep. Patman concluded.

Chemical Tariff Reductions Listed For Fourth Round of Negotiations

Foreign suppliers will be offered a fourth round of tariff reductions amounting to upwards of 15 percent on a range of chemical and allied products whose imports into the United States run into the millions of dollars annually in return for trade concessions on American products, it was indicated last week with publication of the commodities suggested for consideration at the trade agreement negotiations to be held January 18, 1956, at Geneva, Switzerland.

The list included items from almost every paragraph of the chemicals schedule of the tariff act of 1930, as well as a host of other articles imported into the United States under other schedules of the act. In most cases the items proposed to be included were spelled out clearly, although there were some instances where "basket clause" descriptions were used to include all items within the general description of the paragraph.

Few Coal Chemica's on List

Producers of coal chemicals appear to have but little to worry about. Only a few items found in paragraphs 27 and 28 of the tariff act—the coaltar chemicals provisions—were included on the list. But many of the materials important to the drugs, cosmetics and paint industries were included.

Domestic producers of the competing commodities will have their chance to protest any reduction in the tariffs at hearings to be held starting October 31 by both the Tariff Commission and the Committee for Reciprocity Information. The hearings before the latter group will be for the purpose of protesting inclusion of a commodity on the negotiation list, while the hearings before the Tariff Commission will relate to the so-called "peril points."

Persons or firms intending to submit briefs or present oral testimony at the hearings are required to file their statements with the two agencies by October 17. Under the procedures followed, the views and information received by the Tariff Commission in its hearings is made available to the Committee for Reciprocity Information.

Intentions to negotiate a fourth-round of tariff reductions with other members of the General Agreement on Tariffs and Trade (GATT) were first made by the State department last August 1. The United States expects to negotiate concessions with about twenty-five countries, including all the major chemical producing countries such as Germany, France, United Kingdom and Japan.

Roster of Nations Involved

Australia, Austria, Belgium, Canada, Chile, Cuba, Denmark, Dominican Republic, Finland, France, Federal Republic of Germany, Greece, Haiti, India, Italy, Japan, Luxembourg, Netherlands, Nicaragua, Norway, Peru, Sweden, Turkey, Union of South Africa and the United Kingdom make up the roster of involved countries. If there proves to be a basis for negotiation, the United States may

—Continued on page 46

Aluminum Tax Plan Stopped; Steel Goals Will Not Reopen

The government last week ended its tax incentive program for expansion of aluminum production and announced at the same time that there would be no reopening of the goals for increasing steel production. Arthur Flemming, director of the Office of Defense Mobilization, who made the announcement, said that prospective production capacity for both the metals has more than reached the projected defense goals.

Aluminum production capacity in place, under construction and planned will reach a total of 1,778,000 tons, or about 32,000 tons in excess of the expansion goal set for the industry, Mr. Flemming said. The anticipated capacity consists of 1,533,000 tons now in place; 65,000 tons under construction by the Aluminum Company of America; and planned expansion of 180,000 tons, of which Harvey Machine Company plans 54,000 tons, Olin Mathieson Chemical Corporation plans 60,000 tons, and Alcoa plans 66,000 tons.

The Alcoa expansion program is being undertaken without government assistance. Certificates of necessity permitting rapid tax amortization have been granted to Harvey and Olin Mathieson, and are still in effect. Harvey also has a purchase contract which grew out of a [illegible] tent issued in May, 1953, and re[illegible]. Due to special circumstances, the government agreed to provide Harvey with additional assistance if the company could not obtain private financing.

Government assistance for creating additional capacity is no longer war-

—Continued on page 70

Hog Bristles Are Removed From Critical Materials List

Hog bristles were removed from the list of strategic and critical materials last week by the Office of Defense Mobilization. At the same time the General Services Administration was authorized to dispose of the inventory carried in the national stockpile.

ODM officials said that the item was no longer considered strategic in view of the development of satisfactory substitutes, such as tapered nylon bristles, neoceta, and protein bristles.

Under provisions of the stockpile act, GSA must notify congress and publish in the *Federal Register* its plan of disposal at least six months prior to disposition. The plan must include the amount proposed to be released, the method of disposition, and the sale date.

The stockpile act provides that GSA's plan and date of disposition "shall be fixed with due regard to the protection to the United States against avoidable loss," and to the "protection of producers, processors, and consumers against avoidable disruption of their usual markets."

The agency has deleted two other items that are stockpiled from its list of strategic and critical materials. They are kyanite-mullite, which was removed in April, 1954, but for which a disposal program has not been authorized, and quinine, which was removed last January and for which a disposal program has been published.

Calcium Cyanide Tolerance Proposal Made by Cyanamid

A tolerance for residues of calcium cyanide of twenty-five parts per million when used as a pesticide on wheat, barley, rye, rice and corn, has been proposed by American Cyanamid Company, New York, in a petition filed with the Food and Drug Administration.

The next step is for the Secretary of Agriculture to certify to FDA within thirty days whether the pesticide is useful to agriculture for the intended purpose, after which the FDA has ninety days in which to issue an order setting a tolerance for residues of the product.

Copper Plants Hardest Hit By Damage From Hurricane

The copper industry was hardest hit by floods resulting from Hurricane Diane, according to a compilation made last week by the Business and Defense Services Administration. Initial flood damage, the agency said, knocked out 32 percent of the nation's brass mill production, which is largely centered in the Connecticut Valley. By last week, only about half of this output had been restored.

First preliminary estimates of actual flood damage to all industrial facilities in the six-state area made up of Connecticut, Massachusetts, Pennsylvania, Rhode Island, New Jersey and New York total $156,842,680, BDSA stated. Connecticut suffered the heaviest damage with 482 industrial firms reporting damage totaling $72,515,600.

HEW Official Resigns Post

Secretary of Health, Education, and Welfare Marion B. Folsom announced last week he had accepted the resignation of Donald M. Counihan, assistant to the secretary and the department's legislative liaison officer. Mr. Counihan is returning to his law practice in Washington, D. C. He was the first legislative liaison officer appointed after the department was established in 1953.

Transport Issue Backed by Officials

Recommendations of the Presidential Advisory Committee on Transport Policy and Organization that the government revamp its present controls over land and water carriers and permit establishment of rates on a more competitive level were defended and assailed at hearings last week before a subcommittee of the house interstate commerce committee.

The hearings were limited to the representatives of the different transporting bodies and to the members of the Presidential Advisory Committee, and had as their aim expediting congressional consideration of the legislation growing out of the committee's report. Representatives of the shippers who would be affected by the changes proposed will be heard later.

Recommendation on Bulk

One of the recommendations of chief concern to the chemical industry relates to movement of commodities in bulk by inland waterways. The advisory committee recommended—and legislation has been introduced—removing the exemption from Interstate Commerce Commission regulation of the dry-bulk cargo water carriers. The section of the advisory committee report dealing with this subject said:—

"Both railroads and many common carriers by water, in their competing service in the carriage of bulk commodities, are fully regulated, including the requirement that actual rates be published. Bulk water carriers in exempt operations, on the other hand, need not publish their rates and are able to obtain competitive traffic by quoting lower than the published rate. Common carriers by water contend that if they are to obtain the benefits of the exemption they must segregate their tows to exclude non-exempt commodities. This procedure is often impossible, in which case they must quote published rates with the risk of losing the business to another carrier quoting a secret exempt rate. It is claimed that conformity with the requirement for exemption results in operating inefficiencies such as smaller tows, and poorer service to some shippers."

Defense by Secretary Weeks

Secretary of Commerce Sinclair Weeks, who served as chairman of the Presidential Advisory Committee, strongly defended the committee's recommendations in this matter as an attempt to equalize the opportunity for regulated carriers to compete for dry-bulk traffic. He said:—

"Repeal of this exemption would subject common and contract carriers engaged in dry-bulk transportation on the Great Lakes and inland waterways, and

—Continued on page 69

Drug Plant Inspections Being Asked by Illinois

The State of Illinois has moved to modify its procedures on purchases of drugs to set up a system of quality controls which would force out-of-state drug manufacturers and suppliers to open their doors to inspections by agents of the state, it was reported last week.

A number of drug manufacturing companies were advised of the move recently by the Illinois state purchasing agent and have indicated some concern over the developments. They fear it might be a forerunner to similar action by other states which would add greatly to the burden of the industry.

Legality, Trade Secrecy Key Questions

Among the questions that have been raised is whether the state purchasing agent has the legal right to require an out-of-state supplier to submit to inspection, and what protection the companies could expect by way of safeguarding their valuable trade secrets, which the state inspectors might discover.

The purchasing agent's letter to the companies stated that it had been found that the policies of the state with respect to purchases of drugs have for many years lacked adequate controls to insure a satisfactory level of quality. He said that a new policy has been evolved to increase the standard of quality that is "reasonably simple, is fair to all legitimate drug manufacturers and suppliers, and that is capable of enforcement."

The policy is based on the maintenance of a certain minimum level of quality control and maintenance of sanity conditions on the part of drug manufacturers. A long questionnaire and a form have been drawn up to be filled out by drug manufacturers and suppliers which will serve as an application of approval of the company by the state as an authorized supplier of drugs for state purchase.

Manufacturer Must Allow Visits

Among other things, the manufacturer or supplier must certify that he maintains a program of quality control equal to or exceeding the standard set up by the state, and that he will grant permission to a representative of the purchasing agent to visit the premises for the purpose of determining compliance.

Dr. Karl Bambach, executive vice-president of the American Drug Manufacturers Association, stated that while drug manufacturers do not object to reasonable factory inspection by duly authorized authorities, they are concerned over what use might be made of some of the information which the agents could obtain.

He pointed out that the federal government has a strict prohibition against the disclosure of any trade secrets by its inspectors which might come to their attention or knowledge in the performance of their duties but this is not always true in the case of state laws.

Resin Installation Projected For Philippines by Borden

Plans to build a synthetic resin manufacturing plant in Manila to meet the adhesives needs of the Philippine plywood industry have been announced by Augustine R. Marusi, president of Borden Company's chemical division. The plant is to be incorporated as Casco Chemical Company. Philippine investors will participate in its capitalization.

As of now, the Philippine plywood industry depends entirely on synthetic resin shipments from the United States, with Borden a major supplier, according to Mr. Marusi. Borden has been shipping the resin from its Bainbridge, N. Y., facility. The new plant, to be geared for initial production of 8,000,000 pounds of urea resin per year, is designed to meet increasing demands for adhesives which now cannot be imported in heavy volume due to limited storage life.

Calspray Intends to Build Captan Facility in France

Norbert B. Van Buren, California Spray-Chemical Corporation's manager of eastern hemisphere operations and president of California Spray - Chemical Cie. Francaise, has announced that successful negotiations have been completed with French authorities who have approved a $1,500,000 investment by Calspray to build a captan plant in France.

The production of the French plant, which is expected to be "on stream" in the fall of 1956, will be sufficiently large to take care of the French market as well as of the "soft currency" markets throughout the eastern hemisphere. The company sells its captan products under the trade name "Orthocide."

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Anti-Oxidants Are Offered By Sumner Chemical Co.

Sumner Chemical Company has announced the commercial production of two anti-oxidants to be known as "Suconox-12" and "Suconox-18," which are n-lauroyl-p-aminophenol and n-stearoyl-p-aminophenol, respectively.

The largest use for "Suconox-12" is expected to be found where stabilization against aging by air and preservation of good color are primary requirements, the company stated. Products incorporating "Suconox-12" reportedly retain their original color and do not stain other light-colored surfaces with which they may come in contact.

Since "Suconox-12" and "Suconox-18" are amides, they are nonvolatile at temperatures below their decomposition points. This property, the makers noted, suggests their use in products which may be subjected to elevated temperatures either in production or in use.

Ethanolamines Unit Planned By Carbide at Seadrift, Tex.

Construction of a large new ethanolamine unit at Seadrift, Tex., has been announced by H. B. McClure, president of Carbide & Carbon Chemicals Company, a division of Union Carbide & Carbon Corporation, New York. Completion of these facilities in the fall of 1956 will more than double Carbide's ethanolamines capacity.

The Seadrift plant is a major installation for the production of ethylene oxide, ethylene glycol and butadiene. The new ethanolamines unit will be fully integrated with these facilities. Carbide has pioneered the development of ethanolamines and more than 100 other derivatives of ethylene oxide.

General Mills Establishes Separate Soybean Division

General Mills, Inc., Minneapolis, Minn., has announced that the company's soybean operations, which are now part of the chemical division, will be established as a separate division on October 1. The change means that soybean operations, which are located at Belmond, Iowa, and Rossford, Ohio, and the fatty acid operations, located at Kankakee, Ill., will each receive division status. Fatty acids and specialty chemical products will continue as the chemical division.

Sewall Andrews, for the past two and one-half years manager of the chemical division, will be general manager of the new soybean division. William D. Mitchell has been named general manager of the chemical division. For twenty years Mr. Mitchell had been associated with Pennsylvania Salt Manufacturing Company, most recently as vice-president in charge of operations.

Monsanto-Lion Oil Merger Given Stockholder Approval

The merger of Lion Oil Company into Monsanto Chemical Company, St. Louis, Mo., was agreed upon by the directors of both corporations on July 21, was approved by Monsanto shareowners and Lion shareowners at the meetings held in St. Louis and in Eldorado, Ark., last Friday.

A joint announcement concerning the vote of both shareowner groups was made by Edgar M. Queeny, board chairman, and Charles Allen Thomas, president of Monsanto, and T. M. Barton, president of Lion. The merger will become effective on September 30. A two-thirds majority of the outstanding shares of both companies was required to approve the merger.

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Price Index Makes Gain

The overall OPD price index last week moved up 0.41 point to stand at 106.94.

Copper chemicals underwent another round of price increases during the week, due to mounting metal costs coupled with strong demand and short stocks. Among the items increased were sulfate, carbonate, hydrate, and oxychloride. Copper metal was at present holding steady on spot in the domestic market.

A great number of alkalies were scheduled for increases on spot and contract effective October 1, and many of the phosphates were slated for higher prices as well. Phosphoric acid was scheduled to advance, as were mono and diammonium phosphates, some calcium phosphates, sodium acid pyro and ferric pyrophosphates, and monosodium phosphate duohydrate.

In the drugs, fine chemicals and botanicals group, a reduction was recorded for hydrocortisone acetate in bulk and in hydrocortisone alcohol. Demand for seasonal drugs such as caffeine, acetophenetidin and aspirin was reported good. Among textile and leather chemicals, increases were noted for egg albumin in flake and powder form and in egg yolk.

Demand for many coaltar products was good and price quotations were steady. Price revisions among industrial organic chemicals were confined to expected changes in basic nitroparaffins. Fractional revisions took place in the reduced drum prices for nitroethane and nitromethane. New listings of nitropropane were at the same level for 1- and 2-nitropropanes, the later representing a 1¾ cent reduction in tankcars.

Among agricultural chemicals, the nitrogen market was seasonally quiet, while animal proteins were active. Dried blood and tankage were higher in Chicago, with firmer vegetable meals. Fishmeal and scrap were higher in the Chesapeake Bay area owing to hurricane weather and the consequent loss of fishing days. Potash and the phosphates were dull, and producers noted that business for fall mixing had not picked up as well as in past seasons.

The feature of the oil, fats and waxes section was the heavy export demand for crude cottonseed oil which boosted prices sharply. The sharp advance in soybeans due to rainy weather which delayed harvesting also strengthened soybean and other edible oils. Crude coconut was firmer and fractionally higher, though buying interest lagged at the higher level. Copra was also stronger.

Trading in vegetable waxes was restricted to actual needs. Carnauba grades were unchanged and steady. Refined beeswax was stronger, reflecting the high cost and scarcity of crude. Refined yellow slabs were lifted 2c. per pound. Japan on spot was inactive and easier. In the petroleum derivatives section, quotations remained unchanged.

Argentine casein moved up in the protective coatings group, as the political situation made the obtaining of quotations difficult. Advances for barytes were announced, to take effect October 1.

Prices Advanced

Acid, linseed, 1 5c. per lb. (64).
Blood, dried, Chicago, 25c. per unit-ton (39).
Cardamom seed, Guatemalan, decorticated, 30c. per lb. (56).
Casein, Argentine, 1c. per lb. (58).
Copper carbonate, 1½c. per lb. (35).
Cyanide, 2½c. per lb.
Hydrate, 9¼c. per lb.
Oxychloride, 5c. per lb.
Sulfate, CP, 40c. per 100 lbs.
cryst., 99%, 40c. per 100 lbs.
monohydrated, $1 per 100 lbs.
tribasic, $1 per 100 lbs.
Copra, $5 per ton (64).
Coriander seed, Yugoslavian, ½c. per lb. (56).
Cottonseed meal, $3 per ton (64).
Fennel seed, Indian, ½c. per lb. (56).
Fishmeal, $1 per ton (39).
Fishscrap, $1 per ton (39).
Greases, ¼c. per lb. (64).
Lard, cash, ¾c. per lb. (64).
Niger seed, ½c. per lb. (56).
Oil, citronella, Ceylon, 10c per lb. (56).
Coconut, crude, ¼c. per lb. (64).
Corn, crude, ½c. per lb. (64).
refd., ½c. per lb.
Cottonseed, crude, ⅜c. per lb. (64).
refd., ⅜c. per lb.
Fish, refd., $ 10c. per lb. (64).
Menhaden, crude, ⅝c. per lb. (64).
Soybean, crude, ⅜c. per lb. (64).
refd., ⅜c. per lb.
Tallow, acidless, ¾c. per lb. (64).
Soybean meal, $5 per ton (64).
Tallow, inedible, ⅛c. per lb. (64).
Tankage, Chicago, 25c. per unit-ton (39).
Wax, bees, yellow, refd., 2c. per lb. (64).

Prices Reduced

BHC, tech., low gamma, 0.05c. per gamma unit (39).
Caraway seed, Dutch, ½c. per lb. (56).
Cardamom seed, fancy, bold, 7c. per lb. (56).
selected, bleached, 15c. per lb.
Coriander seed, Moroccan, ½c. per lb. (56).
Oil, oleo, ½c. per lb. (64).
Peanut, crude, ¼c. per lb. (64).
Sassafras, art., 10c. per lb. (56).
Pepper, black, Malabar, 3c. per lb. (56).
Wax, Japan, 2c. per lb. (64).

OPD Price Index

THE OIL, PAINT AND DRUG REPORTER'S relative record of prices of chemicals and related materials is currently as follows:—

(100=1949 average)

Sept. 23, 1955	Sept. 16, 1955	Sept. 24, 1954
106.94	**106.53**	**105.64**

Antibiotics Panels Set For HEW Symposium

Titles for three panel discussions have been announced by the Department of Health, Education and Welfare for the third annual antibiotics symposium, which is being held in the department's auditorium, in Washington, D.C., November 2 through 4. The event is being sponsored by the Division of Antibiotics of the Food and Drug Administration and the publications, *Antibiotics and Chemotherapy* and *Antibiotic Medicine*.

On the opening day the panel discussion will consider "Long-Term and Prophylactic Use of Antibiotics." Dr. Harry Dowling, of the School of Medicine of the University of Illinois, will be moderator. The following will participate:- Dr. Dorothy Anderson, Columbia University School of Medicine; Dr. B. D. Breese, University of Rochester School of Medicine; Dr. Edward H. Kaas, Thorndike Memorial Laboratory, Boston City Hospital; Dr. Carl Muschenheim, Cornell Medical Center and Comm. John R. Seal, Bureau of Medicine, US Navy.

Symposium on Penicillin

The second day's panel will be concerned with "Penicillin V." Dr. Morton Hamburger, of Cincinnati General Hospital, will be the moderator. Panel members will include:- Dr. William Altemeier, Cincinnati General Hospital; Dr. William P. Boger, University of Pennylvania School of Medicine; Dr. Nils A. Helstrom, Kabi, Stockholm, Sweden; Dr. K. R. Johansson, University of Minnesota School of Medicine; Dr. Edward Quinn, Henry Ford Hospital; Dr. Karl Spitzy, Biochemie, Vienna, Austria, and Dr. William W. Wright, Division of Antibiotics of FDA.

The topic for the third day will be "True Significance and Real Incidence of Reactions Following Clinical Use of Antibiotics." Dr. Maxwell Finland, of Thorndike Medical Laboratory, will be the moderator. Those on the panel will include:- Dr. Wallace E. Herrell, Lexington (Ky.) Clinic; Dr. A. H. Holland, jr., Food and Drug Administration; Dr. Albert M. Klingman, University of Pennsylvania School of Medicine; Dr. Walsh McDermott; Cornell Medical Center; Dr. Robert T. Parker, University of Maryland School of Medicine; Dr. Charles R. Rein, Bellevue Hospital, New York, and Dr. Louis Weinstein, Massachusetts Memorial Hospitals.

Dow Announces Formation Of Three Agriculture Units

Three new groups have been formed to strengthen and expand Dow Chemical Company's activities in marketing its agricultural chemical products, according to W. W. Allen, manager of agricultural chemicals sales.

The first, a farm products group, will coordinate the work of product managers responsible for marketing herbicides, insecticides, fungicides and soil and grain fumigants for use on the farm. It is supervised by Glenn Gullikson, head of the merchandising section for the past two years.

An industrial products section will coordinate the activities of product managers handling the sale of Dow materials in the utility, highway, railroad, industrial property and other fields. The supervisor is Theodore L. Bendall, for the past eight years head of agricultural chemicals sales for the company's New York, Boston and Philadelphia offices.

The third group will handle long range sales planning, development of markets for new products and new uses for established materials, educational activities for the sales staff, and contacts with extension service personnel and vocational agriculture instructors as well as farmers. Hillard L. Smith, head of herbicide sales for the past seven years, is supervisor. Howard W. Sheldon, with the merchandising group the past year, has moved up as supervisor of that section.

Stearates Plant Opened By Witco in Los Angeles

A new metallic stearates plant was opened last week at Los Angeles by Witco Chemical Company, New York.

Plant operations have been made the responsibility of S. M. Freeman, Witco west coast regional vice-president. Opening of the plant was said to make Witco the first producer to operate stearate plants in all three of the country's largest consuming areas. A Witco plant at Chicago serves the midwest and the third, at Brooklyn, N. Y., supplies the east coast.

Fritzsche Perfume Executive

Warren R. Godfrey, for twenty years manager of the Philadelphia office of Fritzsche Brothers, Inc., has been transferred to the home office in New York to succeed Kenneth W. Tracy. Mr. Tracy, in charge of perfume sales for Fritzsche, will retire from active business the end of the year.

DuPont to Expand Facility Now Being Erected in West

E. I. duPont de Nemours & Co., Wilmington, Del., last week announced plans for a multi-million dollar addition to its new plant now under construction near Antioch, Calif.

The new unit, to be operated by duPont's electrochemicals department, will manufacture sodium, ethyl chloride, trichloroethylene and perchloroethylene. It will adjoin and be integrated with the tetraethyl lead and "Freon" refrigerants plant which is scheduled for completion late in 1956. Sodium and ethyl chloride are essential ingredients in the manufacture of tetraethyl lead. Trichloroethylene and perchloroethylene are solvents widely used in industry.

According to present schedules, the new addition is expected to be completed during the early part of 1957. It will be designed and constructed by the duPont engineering department.

In addition to supplying intermediates for tetraethyl lead, the newly announced plant unit will also manufacture metallic sodium for sale to duPont customers on the west coast. Sodium is used extensively in metal descaling, especially for stainless steel. The trichloroethylene manufactured at the plant will go chiefly to the west coast aircraft and metal fabricating industries for use in degreasing metal parts. Principal consumer of perchloroethylene will be the dry cleaning industry.

DuPont has been a major producer of sodium, trichloroethylene and perchloroethylene for many years and until now has shipped them to customers from plants located in the east and middle west. The three primary raw materials needed by the plant, electricity, propane and salt, will all be purchased locally. Propane will be brought into the plant from nearby oil refineries. Salt will come from the San Francisco Bay area where it is extracted from sea water by solar evaporation.

Oak Ridge Laboratory Head Will Be Dr. A. M. Weinberg

Dr. Alvin M. Weinberg has been appointed director of Oak Ridge National Laboratory, Oak Ridge, Tenn., which is operated for the Atomic Energy Commission by Union Carbide Nuclear Company, a division of Union Carbide & Carbon Corporation, New York. Dr. Weinberg was formerly research director at the

Dr. Alvin M. Weinberg

laboratory. He will assume his new post October 1.

Dr. Weinberg joined the Manhattan District's metallurgical project in 1942, and contributed to the design of the nuclear reactors used in the production of plutonium. Since 1945 he has been associated with Oak Ridge National Laboratory, at first holding the post of director of the physics division. In 1948, he became research director at the laboratory.

Dr. Weinberg recently returned from Geneva, Switzerland, where he served as an official delegate to the International Conference on the Peaceful Uses of Atomic Energy. He read two papers dealing with reactor systems before this conference. One of the main features at the Geneva atomic energy conference was the United States exhibit reactor, which was designed, built and operated by personnel at the Oak Ridge laboratory.

Stauffer and Consolidated Agree on Merger Scheme

Stauffer Chemical Company and Consolidated Chemical Industries, Inc., have agreed in principle on a plan providing for the merger of Consolidated into Stauffer. The plan was approved unanimously by the directors of both companies at special meetings held last week, and it will be submitted to the stockholders of both firms for their approval.

The merger plan provides for an exchange of three and a quarter shares of Stauffer common stock for each share of Consolidated class A participating preference stock, excluding the shares of Consolidated owned by Stauffer. If the merger is completed, 698,038 shares of Stauffer common stock will be issued in exchange for 214,781 shares of the Consolidated class A stock.

Tolerance Application Charges Are Increased

The Food and Drug Administration last week virtually doubled the fees to be charged for processing applications from the insecticide industry for establishment of residue tolerances on chemical pesticides. Experience to date has shown that the fees originally scheduled were far below the levels necessary to make the service self-supporting as provided for in the law.

Under the new schedule, to become effective October 16, each petition or request for establishment of a tolerance must be accompanied by a deposit of $1,000 plus $100 for each raw agricultural commodity more than nine on which establishment of a tolerance is required. Other fees to be charged are as follows:—

● Except as noted below, a petition requesting two or more numerical tolerance levels shall be accompanied by a deposit of $1,500, plus $100 for each raw agricultural commodity more than fourteen on which the establishment of a tolerance is requested.

Bids to Lower Tolerance Levels

● Each petition or request for the establishment of a tolerance at a lower numerical level or levels than a tolerance already established for the same pesticide chemical, or for the establishment of a tolerance on additional raw agricultural commodities at the same numerical level as a tolerance already established for the same pesticide chemical, shall be accompanied by a deposit of $100, plus $100 for each raw agricultural commodity on which a tolerance is requested.

● Each petition or request for an exemption or a temporary exemption from the requirement of a tolerance, a temporary tolerance, or the amendment or repeal of a tolerance or exemption shall be accompanied by a deposit of $1,000, unless it meets the requirements of subparagraph (1) or (2) below.

(1) Such deposit is not required when, in connection with the change sought under this paragraph, a petition or request is filed for the establishment of new tolerances to take the place of those sought to be amended or repealed and a deposit is made.

(2) A request for a temporary tolerance for a pesticide chemical which has a tolerance for other uses at the same numerical level shall be accompanied by a deposit of $100 for clerical handling and initial administrative review, plus $100 for each raw agricultural commodity on which the temporary tolerance is sought.

Provision for Incomplete Requests

● If a petition or a request proposing the issuance of a regulation is not accepted for filing or processing because it is technically incomplete, the deposit, less a $100 fee for clerical handling and initial administrative review, shall be re-

—*Continued on page 57*

Pacific Coast Borax Begins Boron Output on Pilot Scale

Pacific Coast Borax Company, a division of Borax Consolidated, Ltd., New York, has begun production of elemental boron on a pilot-plant scale.

From the beginning of its two-and-a-half-year research program, Pacific Coast Borax said, the production of boron of 89 to 90 percent purity has offered no difficulty. The target was, instead, an amorphous boron of much higher quality at a price for commercial quantities which would remove it from the class of laboratory specialties to that of an industrial chemical.

Two grades of amorophous boron, a low grade of 90 to 92 percent and a high grade of 95 to 97 percent, are to be offered in the price range of $10 to $13 a pound and at $12 to $15 per pound. Sample and test quantities are being offered at somewhat higher prices.

Benzonitrile Is Available In Experimental Amounts

Tennessee Products & Chemical Corporation, Nashville, Tenn., has announced that development quantities of benzonitrile are now available. The material is being produced at the company's Chattanooga pilot plant under a new process.

The company believes that benzonitrile can be produced in commercial quantities at prices that would permit large scale use by many industries. Development quantities of the material will be allocated to interested industries for experimental purposes.

P.A.'s-Eye View of Business

Composite view, September 25 of purchasing agents composing the Business Survey Committee of the National Association of Purchasing Agents.

There is little doubt in the minds of purchasing executives that business can do anything other than remain on its present high plateau throughout the balance of 1955 and into 1956. Topping last month's record 85 percent, this month 93 percent report production as high as or higher than in August. And 92 percent report their new order position equal to or better than last month.

Although commodity prices are very high, it does not seem to be deterring any buying, as demand still exceeds supply in several basic commodities. Inventories strengthened slightly over last month but many would increase their stocks of some items even further if they could get materials. Little more can be said for employment than that it is exceptionally good.

The slightly-extended lead time in buying policy that was evident in the August reports shows up again in September. And yet, in answer to a special question on that factor this month, 76 percent of those who answered indicated that they were scheduling purchases for requirements only. The remaining 24 percent were admittedly reaching for scarce items to cover against unforeseen contingencies ahead.

Commodity Prices

The marked general increase in prices, which was reported last month, was repeated this month by 86 percent of the business survey committee members. Not one felt that prices were any lower, leaving only 14 percent who see prices remaining the same.

Although none indicated that prices generally were lower, several commented on the current weaknesses in agricultural commodity prices, which may serve to hold the cost-of-living index down, in spite of a rise in durable consumer goods prices.

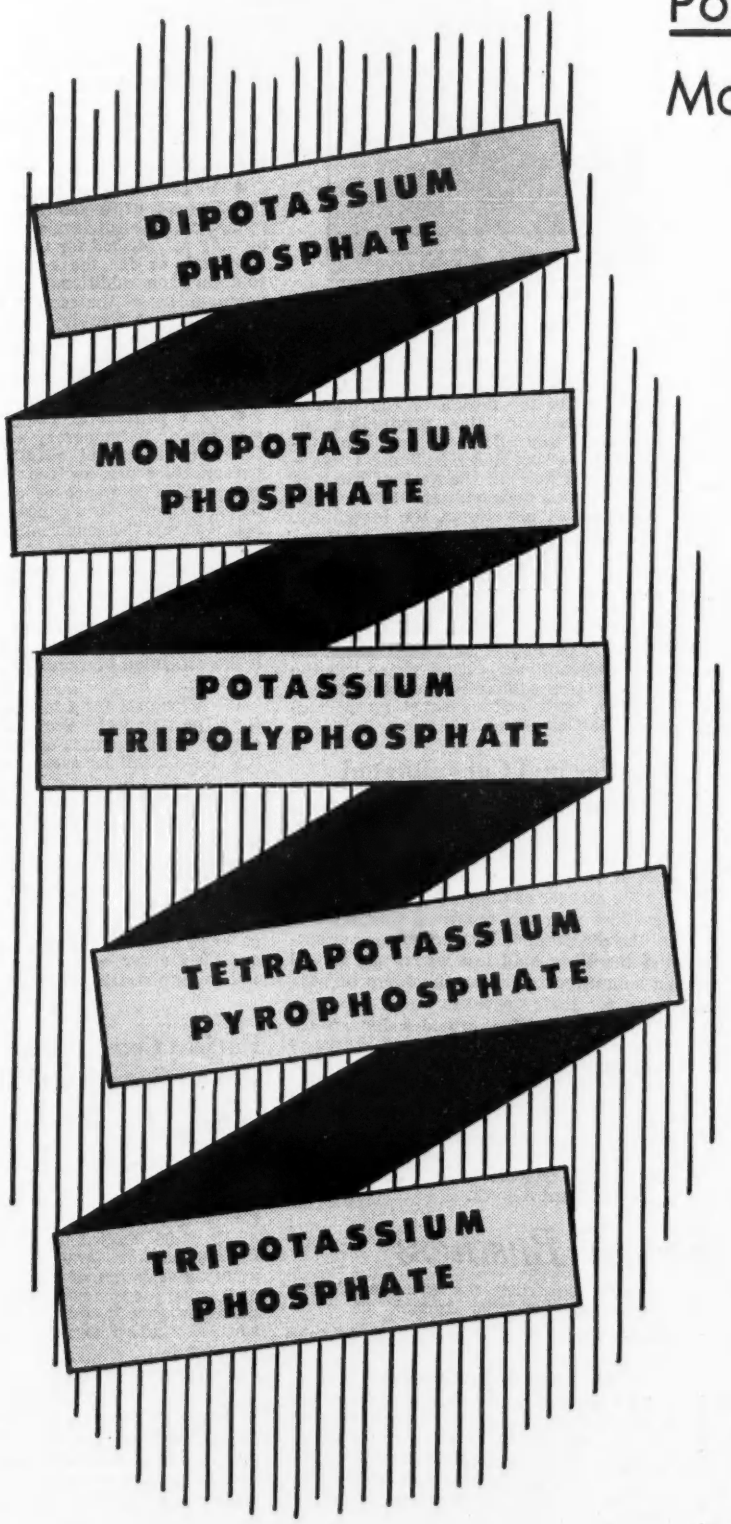
Inventories

There is little change in the inventory status in September. Again, a significant number, 23 percent, report inventories lower but without any intentional effort on their part to reduce them. The 29 percent who report inventories higher is a reflection of those purchasing executives who have liberalized lead-time buying policy. The factors of greater demand than

—*Continued on page 37*

Being Basic in Both

Potash and Phosphorus
Makes



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Association Meetings

This Week

American Institute of Chemical Engineers, Lake Placid, N. Y., September 26-28.

American Tung Oil Association, annual meeting, Edgewater Gulf hotel, Edgewater Park, Miss., September 29-30.

Atomic Industry Trade Fair, Sheraton-Park hotel, Washington, D. C., September 26-30.

American Coke and Coal Chemicals Institute, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., October 17-18.

American Council of Independent Laboratories, annual meeting, Westward Ho hotel, Phoenix, Ariz., November 8-11

American Drug Manufacturers Association, biological section meeting, Cosmopolitan hotel, Denver, Col., October 5-7.

American Institute of Chemical Engineers, annual meeting, Statler hotel, Detroit, Mich., November 27-30

American Mining Congress, 1955 mining convention, Las Vegas, Nev., October 10-13.

American Oil Chemists' Society, annual fall meeting, Bellevue-Stratford hotel, Philadelphia, October 10-12.

American Petroleum Institute, annual meeting, St. Francis, Fairmount, Palace and Mark Hopkins hotels, San Francisco, November 14-17.

American Pharmaceutical Association, New York branch, Remington medal presentation dinner, Sheraton Astor hotel, New York, December 5.

American Pharmaceutical Manufacturers Association, mid-year and eastern section meetings, Waldorf-Astoria hotel, New York, December 12-14.

Antibiotics in Agriculture Conference, first annual, Washington, D. C., October 19-21.

Antibiotics Symposium, third annual, Department of Health, Education and Welfare auditorium, Washington, D. C., November 2-4.

Association of American Feed Control Officials, annual meeting, Shoreham hotel, Washington, D. C., October 12-13.

Association of American Fertilizer Control Officials, annual meeting, Shoreham hotel, Washington, D. C., October 14.

Association of Consulting Chemists and Chemical Engineers, forum and annual meeting, Belmont Plaza hotel, New York, October 25.

Association of Economic Poison Control Officials, annual meeting, Shoreham hotel, Washington, D. C., October 17.

Association of Official Agricultural Chemists, annual meeting, Shoreham hotel, Washington, D. C., October 10-12.

Atomic Energy Exposition, United Nations Plaza, New York, October 20-November 3.

Boston Conference on Distribution, Statler hotel, Boston, October 17-18.

Chemical Industries Exposition, Commercial Museum and Convention Hall, Philadelphia, December 5-9.

Chemical Market Research Association, joint meeting with CCDA, Carter hotel, Cleveland, Ohio, November 14-15.

Chemical Specialties Manufacturers' Association, annual meeting, Roosevelt hotel, New York, December 5-7.

Combined Pharmaceutical Contact Committee of ADMA and APMA, Sheraton-Park hotel, Washington, D. C., October 10-11.

Commercial Chemical Development Association, joint meeting with CMRA, Carter hotel, Cleveland, Ohio, November 14-15.

Federation of Paint and Varnish Production Clubs, annual meeting, Statler hotel, New York, October 3-5.

Industrial Council, fifth annual meeting, Rensselaer Polytechnic Institute, Troy, N. Y., October 27-29.

Industrial Hygiene Foundation, annual meeting, Mellon Institute, Pittsburgh, Pa., November 16-17.

International Atomic Exposition, Cleveland Public Auditorium, Cleveland, Ohio, December 12-16.

International Congress of Industrial Chemistry, Madrid, Spain, October 22-31.

National Association of Retail Druggists, annual convention, Atlantic City, N. J., October 16-20.

National Conference on Standards, Sheraton-Park hotel, Washington, D. C., October 24-26.

National Foreign Trade Council, annual foreign trade convention, Waldorf-Astoria hotel, New York, November 14-16.

National Paint, Varnish and Lacquer Association, annual convention, Shoreham and Sheraton-Park hotels, Washington, D. C., October 31-November 2.

National Wholesale Druggists Association, annual meeting, Greenbrier hotel, White Sulphur Springs, W. Va., November 5-9.

Packaging Institute, annual forum, Statler hotel, New York, October 31-November 2.

Paint Industries' Show, Statler hotel, New York, October 3-5.

Parenteral Drug Association, annual meeting, New Yorker hotel, New York, October 25-27.

Salesmen's Association of the American Chemical Industry, annual sales clinic, Roosevelt hotel, New York, October 24.

Society of Chemical Industry, American section, chemical industry medal dinner, Waldorf-Astoria hotel, New York, October 28.

Society of Rheology, annual meeting, Henry Hudson hotel, New York, November 2-4.

Synthetic Organic Chemical Manufacturers Association, monthly luncheon meeting, Commodore hotel, New York, October 11; annual dinner, Commodore hotel, December 1.

World Plastics Fair and Trade Exposition, National Guard Armory, Los Angeles, October 5-9.

World Symposium on Applied Solar Energy, University of Arizona, Tucson, Ariz., October 31-November 1; Phoenix Civic Center, Phoenix, Ariz., November 1-4.

CMRA Looks Into Why and How Of Chemical Consumer Products

Chemical Market Research Association at its resort meeting in Virginia Beach, Va., last week took a good look into the why and how of chemical consumer products. Discussions ranged from the introduction of a liquid dishwashing detergent to the marketing of lawn and garden cyanamide.

Harold G. Shelton, sales manager of Antara Chemicals, General Aniline & Film Corporation, New York, explained why his company got into the retail marketing field with a new liquid dishwashing detergent.

Around 1945, he explained, laboratory technicians turned up the fact that the company was then making a liquid nonionic surfactant that was far superior to any other product then available for washing hard surfaces, such as dishes and glassware. To capitalize on this asset, he said, Antara contacted the major soapers, but was rebuffed with the answer that "the housewife could not be sold a liquid detergent."

Consumer Survey Conducted

Whereupon, he continued, the company conducted a nationwide consumer survey. The results, he declared, were so promising that the firm's management decided that a major market research study was the next order of business. The 1945 study uncovered the following facts:—

- Liquid detergents were unknown to the housewife.
- To successfully sell a liquid detergent to the consumer would require advertising and promotion expense, as the housewife not only had to be educated to a new product, but her life-long habits in dishwashing had to be changed.
- Antara should set up a new consumer marketing division completely independent of the other sales and marketing groups, to introduce and market the liquid detergent, in limited areas.
- For flexibility and better measure results, initial sales and distribution should be handled by the company's own staff.
- Test cities selected should be ones that could become hubs for further market expansion.
- Since Antara could not support a national sales and marketing organization with only one consumer product, the company would have to (a) be prepared to sell whatever franchise it might be able to developed at a later date, or (b) develop a number of additional consumer items, or (c) purchase or acquire a national marketing firm that was established and self-sustaining.

Business, Trade Name Sold

The next two years, 1946 and 1947, were given over to extensive testing marketing, Mr. Shelton reported, so that by March of 1948 the company was ready to make the big decision of what to do with the liquid dishwashing detergent business. Antara, he said, decided to sell the operation and concentrate on the sale of bulk chemicals, and on August 1, 1948, B. T. Babbitt, Inc., bought the business and the trade name "Glim."

Antara's experience in the retail marketing field, he concluded, has netted the company a number of major gains. It has improved its position as a chemical supplier, he contended, "for it has broadened our understanding of sales problems, business economics and the technical requirements of our customers, not to mention the fact that it opened up a sizable market for the types of surfactants we manufacture."

American Cyanamid Company, New York, expects to sell about 1,000,000 pounds of cyanamide for home garden use this year, a 10 percent gain over 1954. So said F. S. Washburn, general manager of the company's agricultural chemicals division, in a discussion of the marketing of lawn and garden cyanamine.

Marketing Scheme Two Years Old

Although American Cyanamid had been manufacturing the fertilizer since 1909, Mr. Washburn said, it was not until 1953 that it gave any consideration to packaging it for the home garden trade. The company, he said, decided to go after new outlets for cyanamide because newer and cheaper forms of nitrogen became available to the farmer after World War II. The home owner, he added, became a logical target because of the nation's tremendous home building program.

"We felt, after studying our research material," Mr. Washburn went on, "that we could recommend cyanamide to the home owner for putting in a new lawn, for renovating an old one, for building humus in the soil by spading cyanamide down with plant refuse and for the decomposition of organic matter in the compost pile provided we could teach him not to use it for other purposes."

The company then settled on a series of directions for the proper handling of the product, a name for it and a price structure for its sale. A clue to the best method of distribution of the product was provided, the speaker said, in a small market research test program.

"This was," he continued, "to try to keep the material in the hands of the better garden supply stores where the employees were intelligent enough, or had the time, to learn how cyanamide should be used and so instruct their customers. We also found it far easier to sell wholesalers and dealers than to disseminate the necessary education to consumers. In fact our distribution did get to be national before our promotion did and created a few dead spots in our consumer sales."

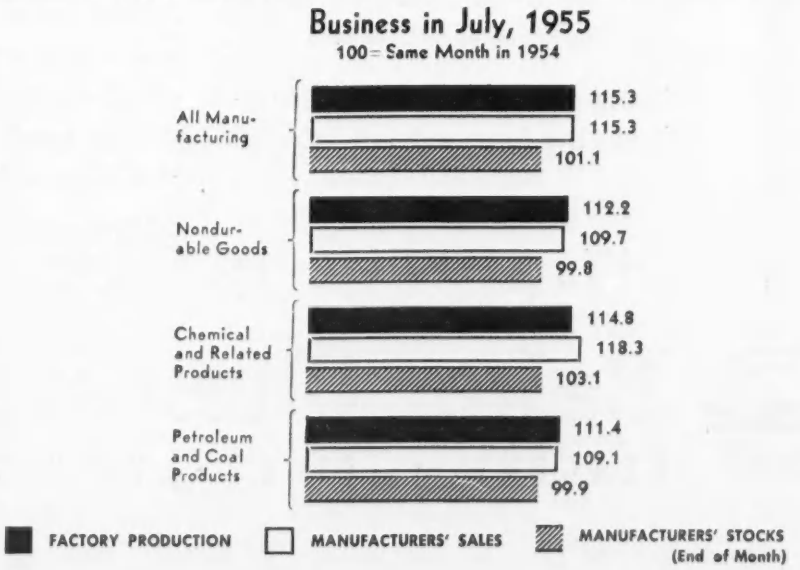
Interim Progress Report

In the less than two years it has been conducting the new marketing program, he said, the company has "by no means educated the gardening public to the use of cyanamide nor have we jumped all the hurdles we faced when we started on this program." However, he added, the initial volume of sales and the fact that is is going up steadily gives reason to believe that a new outlet with a worthwhile volume of sales has been found for the company's cyanamide output.

Why Commercial Solvents Corporation, New York, got into the antifreeze business and how it expanded this line was detailed by CSC's automotive specialties manager, Paul R. Smith. He indicated that the company got into the field "overnight" with the acquisition in 1933 of the industrial alcohol business of the Rossville Commercial Alcohol Company.

Three years later, he said, CSC decided to switch emphasis from ethyl alcohol to methanol base antifreeze and created the "Nor'way" brand. Because antifreeze business is seasonal, he went on, the company,

—Continued on page 66



Industry Health Parley Next Month Is Detailed

Representatives of industrial management and the health professions will have an opportunity to get together on the solution to industrial health problems at the twentieth annual meeting of the Industrial Hygiene Foundation, to be held at Mellon Institute, Pittsburgh, Pa., November 16 and 17.

Some 700 leaders in the industries and professions from all parts of the United States will sit in on technical sessions dealing with the medical, legal, engineering, chemical and toxicological phases of occupational health and will attend the main gathering at which topics of general interest and concern will be discussed. The 370 member companies of the foundation will be represented.

Presenting the keynote address at the main session on November 17 will be A. R. Fisher, president of Johns-Manville Corporation, who will discuss the economic aspects of industrial health. Dr. J. Roscoe Miller, president of Northwestern University, will talk on graduate education for industry's professional personnel. Dr. Daniel C. Braun, medical director of the Industrial Hygiene Foundation, will bring to the rostrum experiences accumulated in a decade of appraising industrial medical departments. Chairman of the morning session is Andrew Fletcher, president of St. Joseph Lead Company, and chairman of the board of trustees of the foundation.

Atomic Energy Applications

Industrial applications of atomic energy will be the topic presented by Dr. W. E. Shoupp, assistant manager of the atomic power division of Westinghouse Electric Corporation, as the first paper in the afternoon session of the management meeting. Dr. Arthur Larson, under Secretary of Labor, will speak on current trends in workmen's compensation. The relationship of man to machines will be taken up by Dr. Wilton M. Krogman, professor of physial anthropology in the Graduate School of Medicine, University of Pennsylvania. M. F. Crass, jr., secretary-treasurer of the Manufacturing Chemists' Association, will discuss the steps that are being taken by the chemical industries to combat the problem of air pollution.

Specific aspects of industrial health will be taken up at the technical conferences on the first day, which include panel discussions and informal sessions, with individuals from the floor directing questions to the speakers and contributing in-

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SOCMA Announces Slate For Nominating Committee

The Synthetic Organic Chemical Manufacturers Association has announced a slate of six candidates for the nominating committee for 1955-56. The candidates will be voted upon at the regular meeting of the association on October 11 at the Commodore hotel, New York.

The candidates are:—R. R. Bumsted, jr., Verona Chemical Company; C. K. Egeler, Sherwin-Williams Company; H. H. Hachen, Trubek Laboratories, Inc.; O. M. Morgan, National Aniline Division of Allied Chemical & Dye Corporation; P. L. Tobey, Industrial Dyestuff Company, and S. H. Williams, General Aniline & Film Corporation.

MCA Tenders Reception To Hull, Its New President

Gen. John E. Hull, president of the Manufacturing Chemists' Association, was honored at a reception given in his behalf by the association at the Sheraton Carlton hotel, Washington, D. C., September 20. Secretary of Defense Charles E. Wilson, under Secretary of Defense for manpower and personnel Carter L. Burgess, and Gen. Maxwell D. Taylor, chief of staff of the army, were among nearly 200 invited government officials and guests.

Purchasing Agents Name Education Committee Head

Peter J. Clarke, director of purchases for Rohm & Haas Company, Philadelphia, Pa., has been appointed general chairman of the National Committee of the National Association of Purchasing Agents. He succeeds Harold F. Jones of E. I. duPont de Nemours & Co., Wilmington, Del. Mr. Clarke has been a member of the Purchasing Agents' Association of Philadelphia since 1941.

Chemicals you need... FAST

Baker ready with big stocks to meet customer demands

Most companies are no longer carrying long inventories. This places new service demands on raw material suppliers. Baker recognizes this trend and has done something about it.

Today, you will find at our Phillipsburg plant large and well-balanced stocks of Fine and Industrial chemicals. If you are running your plant on closely trimmed inventories, you have to replace your stocks of ingredient and process chemicals promptly... Baker is prepared to do this.

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Baker CHEMICAL

Baker Chemicals

REAGENT • FINE • INDUSTRIAL

Current Market Quotations

Chemicals and Related Materials

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Unless otherwise indicated, listings are first-hand quotations prevailing, according to information and belief, September 23 on large lots, f.o.b. New York, with the lowest in the left-hand column and the highest in the right-hand column. The listings do not represent bid and asked prices nor a range over the week. Differences between high and low may be accounted for by differences in quantity, quality, locality, or individual suppliers' views. An index to the weekly market reports is to be found on page 4.

A

Acacia (see Gum arabic).
Acenaphthene, below 92.5 C., m.p., dms. works lb. .40 - —
above 92.5 C., m.p., bbls., dms., works lb. .41 - .50
Acetaldehyde 99%, dms., c.l., dlvd. lb. .12 - —
l.c.l., dlvd lb. .13½ -
tanks, dlvd lb. .10 - —
Acetaldol (see Aldol).
Acetanilide, tech., bbls., c.l., dlvd. lb. .29 - —
ton lots lb. .30 - —
smaller lots lb. .30½ -
USP, bbls., 2,000-lb. lots lb. .80 - —
smaller lots lb. .81 - .86
Acetic anhydride, dms., c.l., dlvd. E. lb. .15½ -
l.c.l., dlvd. E lb. .17 - —
tanks, dlvd. E lb. .14 - —
Acetoacetanilide, fib. dms., c.l., dlvd lb. .80 - —
l.c.l., dlvd lb. .81 - —
Acetoacet-o-chloroanilide, fib., dms., c.l., dlvd lb. 1.35 - —
l.c.l., dlvd lb. 1.36 - —
Acetoacet-o-toluidide, fib. dms., c.l., dlvd lb. .82 - —
l.c.l., dlvd lb. .83 - —
Acetone, CP, dms., c.l., dlvd lb. .09 - —
l.c.l., dlvd lb. .10 - —
tanks, dlvd lb. .07 - —
Methyl (see M)
Acetonitrile, dms., c.l., works lb. .45 - —
l.c.l., works lb. .47 - —
Acetophenetidin, USP, bbls., works, frt equald lb. 1.17 - 1.19
Acetophenone cns., dms lb. 1.21 - 1.85
tech., dms., l.c.l., works lb. .75 - —
N-Acetyl-p-aminophenol, dms., frt. adjusted lb. 1.75 - 1.85
Acetyltributyl citrate, tech., non-ret, dms., c.l., frt. alld. E. of Denver lb. .36 - —
l.c.l., frt. alld. E. of Denver lb. .33 - —
tanks, frt. alld. E. of Denver, lb. .33 - —
Acetyltriethyl citrate, tech., non-ret. dms., c.l., frt. alld. E. of Denver lb. .39 - —
l.c.l., frt. alld E. of Denver, lb. .40 - —
tanks, frt. alld. E. of Denver, lb. .37 - —
Acetyltri-2-ethylhexyl citrate, non-ret. dms., frt. alld lb. .60 - —
Acid, abietic, comi., dms., c.l., works lb. .12 - —
l.c.l., ex whse lb. .1490 -
cryst., dms. c.l., works lb. .06½ -
l.c.l. works lb. .07 - .07½
Acetic, coml., or redist., 28%, bbls 100 lbs. 4.80 - —
56%, bbls 100 lbs 8.25 - —
70%, bbls 100 lbs. 9.95 - —
80% bbls 100 lbs. 10.45 - —
glacial, syn., CP, dms., dlvd. 100 lbs. 15.00 -16.00
tech., dms., c.l., dlvd 100 lbs. 12.00 - —
l.c.l., dlvd 100 lbs. 13.00 - —
tanks, dlvd 100 lbs. 10.00 - —
USP chys., inclusive, dlvd., 100 lbs. 24.00 -25.00
Acetic anhydride (see Acetic anhydride above).
Acetylsalicylic, USP, special, makers, primary distrib., bbls., 1,000-lb. lots, point of shipt lb. .63 - —
standard, fine, cryst., gran., (30-40 mesh) powd., (60 mesh) bbls., 1,000-lb. lots, lb. .58 - .60

Freight equald, shipt, identical quantity over standard routes, from N. Y., Phila., Midland, Mich., Chicago and St. Louis.

Adipic, bgs., c.l., dlvd lb. .33 - —
l.c.l., dlvd lb. .37¾ -
Aminoacetic, NF, bbls., frt. adjusted lb. 1.50 - 1.75
p-Aminobenzoic, tech., dms., works lb. 1.74 - 1.77
USP, dms., 1,000-lb. lots or more, works lb. 2.50 —
smaller lots, works lb. 2.55 - 2.60
p-Aminosalicylic, dms., 1,000-lb. lots or more, frt. adjusted lb. 4.00 —
smaller lots, same basis lb. 4.05 - 4.50
Anthranilic, bbls., frt. equald lb. 1.21 - —
Arsenous, tech., (see Arsenic, white).
USP (see Arsenic trioxide).
Ascorbic USP, dms., 25-100 kilo lots kilo. 16.00 - —
10-kilo lots kilo. 16.35 - —
5-kilo lots kilo. 16.75 - —
bots 1-kilo lots kilo. 17.00 - —
500-gram lots kilo. 17.50 - —
Battery, chys., c.l., works, E. 100 lbs. 2.35 - —
l.c.l., works, E 100 lbs. 2.65 - 3.45
Benzoic, tech., bbls., dms., 100-lb. lots or more lb. .44 - —
USP, bbls., dms., 100-lb. lots or more lb. .54 - —
Betahydroxynaphthoic (see Acid, b-Oxynaphthoic).
Betaoxynaphthoic (see Acid b-Oxynaphthoic).
Boric, tech., 99.9%, cryst., bgs., c.l., works ton. 126.75 - —
ton lots, ex whse, N. Y. or Chi ton. 176.50 - —
smaller lots, same basis. ton. 181.50 - —
dms., c.l., works ton. 151.25 -172.25
ton lots, ex whse, N. Y. or Chi ton. 201.00 -222.00
smaller lots, same basis. ton. 206.00 -227.00
gran., bgs., c.l., works ton. 101.75 - —
ton lots, ex whse, N. Y. or Chi ton. 151.50 - —
smaller lots, same basis. ton. 156.50 - —
dms., c.l., works ton. 126.25 -147.25
ton lots, ex whse, N. Y. or Chi. ton. 176.00 -197.00
Acid, boric, tech., 99.9%, gran., bbls., smaller lots, same basis. ton. 181.00 -202.00
bulk, c.l., works ton. 95.75 - —
powd., bgs., c.l., works ton. 106.75 - —
ton lots, ex whse, N. Y. or Chi. ton. 156.50 - —
smaller lots, same basis. ton. 161.50 - —
dms., c.l., works ton. 131.25 -152.25
ton lots, ex whse., N. Y or Chi ton. 181.00 -202.00
smaller lots, same basis. ton. 186.00 -207.00

Boric acid in kegs $45.50 per ton higher than in paper bgs. USP boric Acid $25 per ton higher.

Broenners bbls lb. 1.76 - —
Butyric, 99% dms., c.l., works, lb. .24 - —
t.c.l., works lb. .34½ -
tanks, works lb. .32½ —
Capric, dms lb. .24 - .26
Caprylic, dms. lb. .24 - .26
Cassella, dms., frt. alld., 100% basis lo. 1.44 1.75
Castor oil, split, dms lb. .35½ .36
Chicago, bbls. frt alld lb. 3.21 - —
Chloroacetic, mono-, purif., flake, 99%, dms lb. .23½ - .25½
tech., flake, 96-97%, dms., frt. equald lb. .20 - .21
o-Chlorobenzoic, fib. dms., works lb. 1.13 - —
p-Chlorobenzoic, fib dms., works lb. 1.59 - 1.63
Chlorosulfonic, dms., c.l., frt. equald lb. .0465 —
t.c.l., frt. equald lb. .0515 —
tanks, frt. equald lb. .0415 —

Acid, chlorosulfonic, in stainless steel dms. ½c. per lb. higher.

Cholic, 100-lb. lots, fib. dms. lb. 6.00 6.25
Chromic 99¾%, dms, c.l works frt. equald lb. .28½ —
l.c.l., dlvd., N. Y. metropolitan area lb. .29 - .30

NF (see Chromium trioxide).

Cinnamic, refd. bots lb. 2.50 3.30
Citric, USP, anhyd., gran., fine gran dms, c.l lb. .28¾ —
10,000-lb lots, 1 shipt. lb. .29¼ —
smaller lots lb. .29¾ - .31¼
Acid, citric, USP, hydrous, gran., fine gran., dms., c.l lb. .27 - —
10,000-lb lots, 1 shipt, lb. .27½ —
smaller lots lb. 28 - .29½
Powdered citric acid ½c. higher
Cleve's, mixed, bbls lb. .79 —
Coconut oil, dist., dms lb. .24¾ - .26¾
tanks lb. .22¾ -
dbl. dist., dms lb. .25¾ - .27¾
tanks lb. .23¾ -
Corn oil, dist., dms lb. .15¾ - .17¾
tanks lb. .13¾ -
Cottonseed oil, dist., dms lb. .1525 - .1725
tanks lb. .1325 -
2,3-Cresotic, dms. ton lots, works, lb. .70 - —
less than ton lots, works lb. .72 - —
Cresylic, coaltar dom., 50% 207° C or above, resin and tricresyl phosphate grade, tanks, frt. equald gal. 1.00 - —
50% 210° C. or above, total range over 9° C., non-resin grade, dms., c.l., same basis gal. .91 - —
t.c.l., same basis gal. .94 - —
tanks, same basis gal. .80 - —
50% 204° to 207° C., tricresyl phosphate and resin grade, tanks, same basis gal. 1.10 - —
Imp., 75% at 215° C., or over, dms., ex whse gal. .85 - 1.00
petroleum, dom., 195° to 214° C., non-ret. 65 dms. to c.l., works, San Francisco and Los Angeles gal. .75 - —
t.c.l., same basis gal. .77 - .79
tanks, works, frt. alld. E. gal. .71 - —
200° C. to 222° C., tanks, Wilmington, Cal gal. .62 - .69
211° C to 237° C., non-ret. dms., c.l., San Francisco and Los Angeles gal. .67 - —
t.c.l., same basis gal. .69 - .71
tanks, same basis gal. .54 - —
220° C. to 242° C., tanks, Wilmington, Cal gal. .54 .59
245° C. to 295° C., tanks, Wilmington, Cal gal. .50 - —
Crotonic fib. dms., 200 lbs. or more, works lb. .50 - —
Cyanoacetic, tech., bbls lb. .90 1.25
Dehydrocholic, injection, fib. dms. 100-lb. lots lb. 12.25 - —
oral, fib. dms., 100-lb. lots lb. 9.25 - —
Acid, desoxycholic, fib. dms., 100-lb. lots lb. 14.00 - —
Dichlorophenoxyacetic (see under D' 2,4-D)
Diethylbarbituric (see Barbital)
Diglycolic, bgs. works lb. .14 - —
2-ethyl hexoic, dms., c.l., works lb. .36½ -
t.c.l., works lb. .37½ -
tanks, works lb. .34½ -
F, crude, paste, bbls., works lb. 2.10 - —
Folic, bots fib. cns kilo-lots or more gram. 1.40 - —
Formic, 85%, chys., c.l., works lb. .1570 -
l.c.l., works lb. .1620 - .1720
90%, chys., c.l., works lb. .1625 -
l.c.l. works lb. .1675 - .1775
Fumaric tech., bgs., dms lb. .27 .28
Gallic, NF VII bbls., 1,000-lb lots, lb. 1.80 —
smaller lots lb. 1.82 - 2.00
tech., bbls., 1,000-lb. lots lb. 1.58 —
smaller lots lb. 1.82 - 2.00
Gamma, dry, grd., bbls., frt. alld. lb. 1.50 - —
paste, bbls., frt. alld lb. 1.45 - —
Gentisic, 100-lb fib dms lb. 8.50 - —
Gluconic, tech., 50% bots lb. .23 - .25
cbys. lb. .19 —
dms. lb. .15½ -
l-Glutamic, 99½% fib. dms., 100-lb lots works lb. 2.45 2.53
25 lb lots, works lb 2.54 2.60
Glycerophosphoric, 35%, dms., works lb. 2.25 2.35
Glycolic (see Acid hydroxyacetic).
H, dry, bbls., c.l., works, 100% basis lb. 1.00 - —
t.c.l., same basis lb. 1.02 - —
Hydriodic, 1.50 s.g., cbys lb 2.94 - —
1.70 s.g., cbys lb 3.23 - —
Hydrobromic, medicinal, 48%, cbys, dlvd E 15 .37 - .43
Hydrochloric, anhyd (see Hydrogen chloride).
18° cbys., c.l., works 100 lbs. 2.50 - —
t.c.l., dlvd Metropolitan area 100 lbs. 2.90 - 3.05
tanks, works, frt equald ton. 28.00 - —
20° cbys., c.l., works 100 lbs. 2.75 - —
t.c.l., dlvd Metropolitan area 100 lbs. 3.15 - —
tanks, works, frt equald ton. 30.00 - —
22° cbys., c.l., works 100 lbs. 3.25 - —
t.c.l. dlvd Metropolitan area 100 lbs. 3.65 - —
tanks, works, frt equald ton. 35.00 - —
CP, USP, consumers, cbys., extra c.l. works lb. 11¾ -
t.c.l., same basis lb. .13¼ - .13¾
5-pint bots., extra, cs., c.l., same basis lb. .16¾ -
t.c.l., same basis lb. .18¼ - .19¼

Acid, hydrochloric, CP, USP prices to dealers 1 2c per lb less.

Hydrocyanic, cyls., frt alld lb. .75 - .95
dilute NF, 2%, 5-lb. bots lb. .40 - —
Hydrofluoric, anhyd. (see Hydrogen fluoride).
tanks, works lb. .21 - —
70%, steel dms., works lb. .18½ - .22½
Hydrofluosilic, dms., works, 30% basis lb. .06 - —
Hydroxyacetic, tech., 70%, non-ret. bbls., Phila., 100% basis lb. .136 - —
tanks, Belle, W. Va., 100% basis lb. .093 - —
Hypophosphorus, purif., 50%, cbys lb. 1.30 - 1.32
USP, cbys lb. .88 - —
Isonicotinic, 100 lb fib dms, works lb. 5.00 - —
Itaconic, fib dms., c.l., works lb. .59 - —
l.c.l., works lb. .60 - —
Hydrazide (see Isoniazid).
J, bbls., works, 100% basis lb. 2.50 - 2.85
Koch, bbls., frt. alld lb. 1.00 - —
L, bbls., works lb. 1.25 - —
Lactic, edible, 50%, bbls., 20 or more lb. .1754 - .215
smaller lots lb. .1854 - .225
80%, bbls., 5 or more lb. .3054 - .37
smaller lots lb. .3104 - .375
plastic grade, 50%, bbls., 20 or more, works lb. .23 - —
1 to 19 lb. .235 - —
80%, bbls., 5 or more lb. .385 - —
tech., 22%, bbls., c.l., works 100 lbs. 6.30 - —
t.c.l., works 100 lbs. 6.70 - —
cbys., l.c.l., works 100 lbs. 12.20 - —
44%, bbls., c.l., works 100 lbs. 11.45 -11.95
l.c.l., works 100 lbs. 11.85 -12.35
USP, 85%, chys. lb. .85 - .88
Laurent's, bbls lb. .60 - —
Lauric, dms lb. .35½ - .37½
Linseed oil, dist., dms lb. .1965 - —
w.w., dms lb. .2263 - —
Maleic, cryst., powd., dms lb. .37 - .38
Malic, tech., dms lb. .50 - —
Mandelic, NF, dms., 1,000-lb. lots, lb. 2.35 - —
smaller lots lb. 2.40 - 2.50
Metanilic, dms., works lb. .57 - .75
Methacrylic, glacial, 98%, dms., truckloads, works lb. .54½ -
smaller lots, works lb. .55 - —
Molybdic, 85-92% dms., works lb. 1.35 - —
Monoclorocetic purif. (see Acid, Chloroacetic mono-).
Muriatic (see Acid, hydrochloric).
Myristic, dms lb. .28 - 29¾
1-Naphthol-4-sulfonic (see Acid, Nevile and Winthers).
1-Naphthol-5-sulfonic (see Acid, L).
1-Naphthol-3-sulfonic, 8-amino (see Acid, S).
1-Naphthol-3,6-disulfonic, 8-amino (see Acid, H).
2-Naphthol-6,8-disulfonic (see Acid, Gamma).
5-Naphthol-7-sulfonic, 2-amino (see Acid, J).
Naphtholsulfonic, mixed (see Acid, Cleve's).
1-Naphthylamine-5-sulfonic (see Acid, Laurent's).
2-Naphthylamine-4,8-disulfonic (see Acid, Cassella).
2-Naphthylamine-6-sulfonic (see Acid, Broenner's).
2-Naphthylamine-7-sulfonic (see Acid, F).
2-Naphthylamine-1-sulfonic (see Acid, Tobias).

Abbreviations

Used in OPD Market Quotations

alld.	allowed	distr.	distributor	NNR	New and Nonofficial Remedies
amorph.	amorphous	djns.	demijohns	No.	number
AMP	American melting point	dlvd.	delivered	nom.	nominal
anhyd.	anhydrous	dms.	drums	o-	ortho
a.p.a.	available phosphoric acid	dom.	domestic	ord.	ordinary
approx.	approximately	E.	east	oz.	ounce
artif.	artificial	e.p.	end point	p-	para
ASTM	American Society for Testing Materials	equald.	equalized	Pac.	Pacific
Atl.	Atlantic	exp.	expressed	pf.	proof
Be.	Baume	F.	fahrenheit	phos.	phosphate
bbls.	barrels	ferment.	fermentation	photo.	photographic
bgs.	bags	f.f.a.	free fatty acid	pkgs.	packages
bls	bales	f.f.c.	free from chlorine	powd.	powdered
bots.	bottles	fib.	fiber	precip.	precipitated
b.p.	boiling point	f.o.b.	free on board	prod.	producer
b.p.l.	bone phosphate of lime	f.p.a.	free of prussic acid	pt.	point
b.r.	boiling range	frt.	freight	pulv.	pulverized
bxs.	boxes	gal.	gallon	purif.	purified
C.	centigrade	gran.	granular	redist.	redistilled
cbys.	carboys	grd.	ground	refd.	refined
CD	completely denatured	I.&a.	iron and aluminum	refy.	refinery
c.i.f.	cost, insurance, freight	i.b.p.	initial boiling point	reg.	regular
cks.	casks	imp.	imported	resub.	resublimed
c.l.	carlots	incl.	included	ret.	returnable
cns.	cans	indust.	industrial	SD	specially denatured
coml.	commercial	kgs.	kegs	s.d.	single distilled
conc.	concentrated	l-	laevo	S E.	southeast
CP	chemically pure	lacq.	lacquer	sec.	secondary
cps.	centipoises	lb.	pound	secs.	seconds
cryst.	crystal	l.c.l.	less than carlots	s.g.	specific gravity
cs.	cases	l.t.l.	less truckload	ship't	shipment
ctns.	cartons	liq.	liquid	soln.	solution
cyls.	cylinders	mfrs.	manufacturers	s.u.	standard unit
d-	dextro	m-	meta	syn.	synthetic
dbl.	double	m.a.p.	mixed aniline point	tanks.	railroad tankcars
denat.	denatured	min.	minimum	tech.	technical
dest-dist.	destructive-distilled	m.p.	melting point	tert-	tertiary
dl-	dextro-laevo	N-	nitrogen	t.l.	truck loads
dist.	distilled	n-	normal	t.w.	tank wagons
		nat.	natural	USP	U. S. Pharmacopoeia
		neut.	neutral	vis.	viscosity
		NF	National Formulary	VM&P	varnish makers & painters
				w. w.	west
				W.	warehouse
				whse.	water-white

A unit-ton is 2,000 pounds of 1 percent of the basic constituent or other standard of the material. The percentage figure of the basic constituent, multiplied by the price figure shown gives the price of 2,000 pounds of the material.

Acid, Nevile and Winther's—Alcohol, Diacetone

Acid, Nevile and Winther's, dms., frt. alld lb. 1.20 —
Nicotinic, USP, dms., frt. adjusted kilo 8.00 - 8.30
Amide, USP, (see Nicotinamide)
Nitric 36° Be chys., c.l., works, E. 100 lbs. 5.75 —
l.c.l., works, E 100 lbs. 6.05 6.85
38° Be chys., c.l., works E. 100 lbs. 6.25 —
l.c.l., works, E 100 lbs. 6.55 7.35
40° Be, chys., c.l., works, E 100 lbs. 6.75 —
l.c.l., works, E 100 lbs. 7.05 7.85
42° Be chys., c.l., works E 100 lbs. 7.25 —
l.c.l., works, E 100 lbs. 7.55 8.35
58.5 to 68% HNO_3, tanks, works, 100% basis 100 lbs. 3.90 - —
94½ to 95½% HNO_3, tanks, works, 100% basis 100 lbs. 4.90 - —
CP NF, consumers, chys., extra c.l., works lb. .13½- —
l.c.l., same basis lb. .11¼- .11¾
5-pt. bots., extra, cs., c.l., same basis lb. .17½- —
l.c.l., same basis lb. .14¾- .20¾
p-Nitrobenzoic, dms., c.l., works lb. .72 - —
l.c.l., works lb. .73 —
Oleic, s.d., dms lb. .18 - .20
tanks lb. .16 - —
dbl. dist. (white), dms lb. .20½- .22½
tanks lb. .1850- —
Oleum (see Acid, sulfuric, fuming).
Orthochlorobenzoic (see Acid, o-Chlorobenzoic).
Orthocresotinic (see Acid, 2,3-Cresotic).
Oxalic, bbls., c.l., works lb. .16½- —
10,000-lb. lots, works lb. .16¾- —
smaller lots, works lb. .17¾- —

Acid, b-oxynaphthoic, bbls., works. lb. 1.14 - —
Palm oil, dbl., dist., dms lb. .14¼- .16¼
Para-aminobenzoic (see Acid, p-Aminobenzoic)
Para-aminosalicylic (see Acid, p-Aminosalicylic).
Parachlorobenzoic (see Acid, p-Chlorobenzoic)
Paramethylphenylcinchonic (see Neocinchophen)
Paranitrobenzoic (see Acid, p-Nitrobenzoic)
Paratoluidinmetasulfonic (see Acid, p-Toluidine m-sulfonic)
Phenylacetic, pure, cryst., cns. lb. .75 - 1.70
Phenylcinchoninic (see Cinchophen).
Phenylglycolic (see Acid, mandelic).
Phosphoric, food grade, 75%, chys., c.l., frt. alld E 100 lbs. 6.50 - —
l.c.l., works 100 lbs. 7.25 - —
tanks, works 100 lbs. 5.10 - —
NF, 85%, chys., c.l., works lb. .08 - —
l.c.l., works lb. .08½- —
Picric, NF, bbls. lb. .60 - —
tech., bbls. lb. .34 - .35
Propionic, syn., pure, dms., c.l., works lb. .21 - —
l.c.l., works lb. .22 - —
tanks, works lb. .19 - —
Pyrogallic, NF, (see Pyrogallol). tech., bbls lb. 2.76 2.99
Ricinoleic (see Acid, castor oil, split).
S., bbls., works lb. 3.25 - —
Salicylic, crude, fib. dms., c.l. lb. .35 - —
l.c.l., same basis lb. .36 - —
sublimed, tech., fib. dms., c.l. lb. .37 - —
l.c.l. lb. .41 - —
USP, cryst., fib. dms lb. .48 - —
powd., fib. dms lb. .55 - —

Acid, sebacic, purif., dms., c.l., works lb. .64 - —
l.c.l., works lb. .66 - .70
Soybean oil, dbl. dist., dms lb. .17¾- .19¾
tanks lb. .15¾- —
s.d., dms lb. .16¼- .18¼
tanks lb. .14¼- —
Stearic, dbl. pressed, bgs lb. .14¾- .16¾
single pressed, bgs lb. .14¼- .16¼
triple pressed, bgs lb. .17 - .19
Succinic purif., cryst., bbls., works lb. .62 - .75
Sulfanilic, tech., dms., c.l., frt. alld lb. .19 - —
l.c.l., frt. alld lb. .21 - —
Sulfuric, 60° Be, chys., c.l., works 100 lbs. 2.00 - —
l.c.l., works 100 lbs. 2.45 - —
tanks, works ton. 18.60 - —
66° Be, chys., c.l., works, 100 lbs. 2.25 - —
l.c.l., works 100 lbs. 2.55 -3.35
tanks, works ton. 22.35 - —
98%, tanks, works ton. 23.50 - —
99-100%, tanks, works ton. 23.95 - —
CP, NF, consumers, chys. extra, c.l., works, frt. equald lb. .09¾- —
l.c.l., same basis lb. .11¼- .11¾
5-pt. bots., extra cs., c.l., works, frt. alld lb. .13¼- —
l.c.l., same basis lb. .14¾- .20¾
fuming (oleum), 20%, tanks, works ton. 25.00 - —
40%, tanks, works ton. 29.00 - —
65%, tanks, works ton. 39.50 - —
Tallow, dist., dms lb. .14¾- .16¾
hydrogenated, bgs lb. .13¾- .15¾
Tannic, NF, fluffy, bbls., 1,000-lb. lots lb. 1.80 - —
smaller lots lb. 1.81 - 1.85
powd., bbls., 1,000-lb. lots lb. 1.70 - —
smaller lots lb. 1.71 - 1.76
tech., dms lb. .95 - —

Acid, tartaric, USP, dom., 230 or 250-lb. dms., c.l. lb. .44 - —
10,000-lb. lots, 1 shipt lb. .44½- —
smaller lots lb. .45 - —
100-lb. dms lb. .46 - —
small, dms. lb. .48 - .54
imp., bgs lb. .38 Nom.
Thioglycolic, refd., cbys., 100% basis lb. 1.35 - 1.55
Tobias, bbls., frt. alld lb. .77 - —
Toluenesulfonic, dms., c.l., works, lb. .16 - —
l.c.l., works lb. .17½- —
p-Toluene sulfonic, monohydrate, dms., c.l., or t.l. lb. .90 - —
125 lbs. to t.l. lb. 1.00 - —
p-Toluidine-m-sulfonic, bbls., works lb. .82 - 1.04
Trichloroacetic, bots. lb. 2.50 - 2.50
Trichlorophenoxyacetic (see under 'T' 2,4,5T)
Tungstic, tech., kgs., works lb. 4.25 - —
Undecylenic, dms. lb. 1.40 - —
Aconite root, bls lb. .50 - .55
Acrolein, tech., dms., c.l., works lb. .47 - —
l.c.l., works lb. .47½- —
Acrylonitrile, dms., c.l., t.l., works, lb. .30 - —
l.c.l., l.t.l., works lb. .31 - —
tanks, works lb. .27 - —
ACTH, cryst., bulk, 1,000 units/gram, bots gram 15.00 - —
Adeps lanae (see Lanolin).
Adrenocorticotropic hormone (see ACTH).
Agar, USP, Kobe No. 1, strip, bls. lb. 3.00 - 3.25
powdered, 30 mesh, fib., dms lb. 3.40 - 3.50
dl-Alanine, dms., works lb. 8.50 -11.00
Albumin, blood, dark (see Blood, dried, soluble).
light, dms., c.l. lb. .65 - .90
Egg, edible, flake, bbls lb. 1.80 - 1.85
powd., cryst., bbls lb. 1.84 - 1.89
tech., cryst., bbls lb. .70 - .85
Alcohol, allyl, dms., c.l., dlvd lb. .32 - —
l.c.l., dlvd lb. .33 - —
tanks, dlvd lb. .30 - —
Amyl, ex fusel oil (see Fusel oil, refd.)
ferment., refd., 128°-132°C., dms., l.c.l., dlvd lb. .43 - —
ACS grade, dms., l.c.l., dlvd lb. .45 - —
ex-pentane, mixed, amyls, dms., c.l., frt. alld lb. .17 - —
l.c.l., frt. alld lb. .18 - —
tanks, frt. alld lb. .15 - —
primary, dms., c.l., frt. alld. lb. .19¼- —
l.c.l., frt. alld lb. .20¼- —
tanks, frt. alld lb. .17¼- —
sec-synthetic, dms., c.l., works, frt. alld lb. .18 - —
l.c.l., works lb. .19 - —
tanks, works lb. .16 - —
tert-synthetic, dms., c.l., frt. alld. E lb. .17 - —
l.c.l., frt. alld. E lb. .18 - —
tanks, frt. alld. E lb. .15 - —
1-pentanol, (syn. normal), dms., c.l., works lb. .42 - —
l.c.l., works lb. .43½- —
tanks, works lb. .40 - —
2-pentanol, dms., c.l., works lb. .65 - —
l.c.l., works lb. .70 - —
tanks, works lb. .60 - —
Benzyl, NF, dms lb. .64 - .79
tech., dms., dlvd lb. .47½- .49
n-Butyl, ferment., dms., c.l., frt. alld lb. .15 - —
l.c.l., frt. alld lb. .16 - —
tanks, frt. alld lb. .13 - —
n-synthetic, dms., c.l., dlvd lb. .15 - —
l.c.l., dlvd lb. .16 - —
tanks, dlvd lb. .13 - —
sec-synthetic, dms., c.l., dlvd. lb. .13 - —
l.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .11 - —
tert-synthetic, dms., c.l., frt. alld. lb. .14 - —
l.c.l., frt. alld lb. .15 - —
tanks, frt. alld lb. .12 - —
Capryl, 95%, dms., c.l., works lb. .21½- —
l.c.l., works lb. .22½- .23½
tanks, works lb. .19½- —
Cetyl, extra, fib. cns., 500-lb. lots or more lb. .73 - —
smaller lots lb. .80 - 1.15
NF, fib. cns., 140-lb. lots or more lb. .58 - .62
smaller lots lb. .59 - .62
Cinnamic, bots lb. 2.15 - 2.75
Decyl mixed isomers, dms., c.l., dlvd. lb. .23 - —
l.c.l., dlvd. lb. .24 - —
tanks, dlvd. lb. .21 - —
normal (see 1-Decanol).
Denat., CD12, CD13, CD14, CD17, dms., c.l., dlvd. E. of Rockies gal. .54½- —
l.c.l., same basis, gal. .59½- .65½
tanks, dlvd. same basis, gal. .41½- —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Div.
Proprietary solvent, dms., c.l., dlvd. E. of Rockies gal. .56 - —
l.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —
Tankcar sales require written authorization by Alcohol and Tobacco Tax Div.
SD1, dms., c.l., dlvd. E. of Rockies gal. .55½- —
l.c.l., same basis gal. .60½- .66½
tanks, same basis gal. .42½- —
SD2B, dms., c.l., dlvd. E. of Rockies gal. .54 - —
l.c.l., same basis gal. .59 - .65
tanks, same basis gal. .41 - —
SD3A, dms., c.l., dlvd. E. of Rockies gal. .53 - —
l.c.l., same basis gal. .58 - .64
tanks, same basis gal. .40 - —
SD23A, dms., c.l., dlvd. E. of Rockies gal. .55½- —
l.c.l., same basis gal. .60½- .66½
tanks, same basis gal. .42½- —
SD23H, dms., c.l., dlvd. E. of Rockies gal. .56 - —
l.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —
SD29, dms., c.l., dlvd. E. of Rockies gal. .54½- —
l.c.l., same basis gal. .59½- .65½
tanks, same basis gal. .41½- —
SD30, dms., c.l., dlvd. E. of Rockies gal. .53 - —
l.c.l., same basis gal. .58 - .64
tanks, same basis gal. .40 - —
SD35A, dms., c.l., dlvd. E. of Rockies gal. .56 - —
l.c.l., same basis gal. .61 - .67
tanks, same basis gal. .43 - —
SD40, dms., c.l., dlvd. E. of Rockies gal. .54 - —
l.c.l., same basis gal. .59 - .65
tanks, same basis gal. .41 - —
West coast dlvd. prices are the same as eastern prices, except in Idaho, Montana, Oregon and Washington, where a 5c. differential on tankcars is maintained.
Diacetone, acetone-free, dms., c.l., dlvd lb. .14 - —
l.c.l., dlvd lb. .15 - —
tanks, dlvd lb. .12 - —
tech., dms., c.l., dlvd lb. .13½- —
l.c.l., dlvd lb. .14½- —
tanks, dlvd lb. .11½- —

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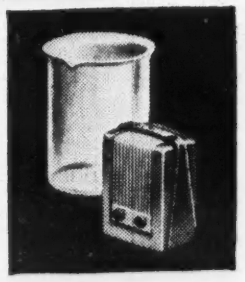
Here at Publicker, we maintain that users of our products can no more afford to take chances with quality than we can. Consequently, every drop in every gallon or tank car is exactly according to specifications—always. And Publicker's ultra-modern equipment and vast facilities account for outstanding service to a long list of satisfied customers. May we have the opportunity of meeting *your* requirements?



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Pfizer Vitamin A Crystalets are available in potencies of 250,000 units and 500,000 units per gram in fine and medium mesh sizes. Vitamin A and D Crystalets are available in potencies of 500,000 Vitamin A units per gram in combination with either 100,000 or 50,000 Vitamin D units per gram. Other A:D ratios can easily be obtained by blending. And, *in any ratio, the cost of adding Vitamin D is minimal.*

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Alcohol, Ethyl—Ammonium Pentaborate

Alcohol, ethyl, 190 pf., USP, tax paid, dms., c.l., dlvd. E. of Rockies gal. 20.48 - —
l.c.l. same basis gal. 20.53 - 20.59
tanks, same basis gal. 20.35 - —
tax free, dms., c.l., dlvd. E. of Rockies gal. .53 - —
l.c.l. same basis gal. .58 - .64
tanks, same basis gal. .40 - —
absolute, 200 pf., tax paid, dms., c.l., dlvd. E. of Rockies, gal. 21.58 - —
l.c.l. same basis gal. 21.63 - 21.69
tanks, same basis gal. 21.45 - —
2-Ethylbutyl, dms., c.l., works lb. .29½- —
c.l. works lb. .30 - —
tanks, works lb. .28 - —
2-Ethylhexyl, dms., c.l., dlvd. E lb. .23¾- —
l.c.l., same basis lb. .24¾- —
tanks, same basis lb. .21¾- —
Furfuryl, cns., works lb. .29 - —
dms., c.l. Cedar Rapids, Ia lb. .21 - —
Newark, N. J. lb. .21½- —
l.c.l. Cedar Rapids, Ia lb. .22 - —
Newark, N. J. lb. .22½- —
tanks, Memphis, Tenn lb. .184 - —
Hydroabietyl, tech., soild, Zone 1, dms., c.l., dlvd lb. .27 - —
l.c.l., dlvd. lb. .27½- —
tanks, dlvd. lb. .25 - —
Isoamyl, dms., c.l., works, frt. alld. E lb. .34 - —
l.c.l. same basis lb. .35 - —
tanks, same basis lb. .32 - —
Isobutyl, dms., c.l., dlvd. lb. .14 - —
l.c.l. dlvd. lb. .15 - —
tanks, dlvd lb. .12 - —
Iso-octyl, dms., c.l., dlvd. E lb. .23 - —
l.c.l. dlvd. E lb. .24 - —
tanks, dlvd. E lb. .21 - —

Alcohol, isopropyl, refd., 91%, dms., c.l., dlvd gal. .48 - —
l.c.l., dlvd. gal. .55 - —
tanks, dlvd. gal. .35 - —
95%, c.l., dlvd gal. .50 - —
l.c.l., dlvd gal. .57 - —
tanks, dlvd gal. .37 - —
99%, dms., c.l., dlvd gal. .52 - —
l.c.l., dlvd gal. .59 - —
tanks, dlvd gal. .39 - —
Lauryl, bots. lb 2.00 - 2.50
Methyl (see Methanol).
Metnylamyl (see Carbinol, methyl-isobutyl).
Octyl, perfumer's grade, bots lb. 1.75 - 3.25
tech. (see Octanol, normal).
2-Phenylethyl, extra, dms. lb. 1.14 - 1.45
standard, dms. lb. 1.18 - 1.48
n-Propyl, dms., c.l., dlvd. lb. .12 - —
l.c.l., dlvd lb. .13 - —
tanks, dlvd. lb. .10 - —
Tetrahydrofurfuryl, cns., Cedar Rapids, Iowa lb. .54 - —
dms. c.l., Niagara Falls, N. Y. lb. .44½- —
l.c.l., Newark, N. J., Cedar Rapids, Ia lb. .47 - —
tanks, Niagara Falls, N. Y. lb. .43 - —
Indust. grade, dms., c.l., Niagara Falls, N. Y lb. .305 - —
l.c.l., Newark, N. J., Cedar Rapids, Ia lb. .33 - —
tanks, Niagara Falls, N. Y. lb. .29 - —
Tridecyl, mixed isomers, dms., dlvd. lb. .26 - —
l.c.l., dlvd. lb. .27 - —
tanks, dlvd lb. .24 - —
Wood (see Methanol).
Aldol, 95%, dms., works lb. .23 - —
denaturing grade, dms. gal. 2.15 - —

Aldrin, tech., fib. dms., c.l., t.l., dlvd lb. .80 - —
l.c.l., dlvd. lb. .85 - —
Aletris root, bgs. lb. 1.75 - 1.85
Algin (see Sodium alginate).
Allethrin, 90%, dms. frt. alld lb. 28.80 - 28.90
soln., 20%, dms., 200-2,000 lb. lots, frt. alld lb. 6.50 - 6.55
2½%, dms., frt. alld. lb. .95 - 1.00
Allspice (see Pimento).
Allyl bromide, chys., works lb. 1.35 - 1.40
Chloride, dms., c.l., dlvd lb. .17 - —
l.c.l., dlvd. lb. .18 - —
tanks, dlvd. lb. .15 - —
Starch, solid, dms., works lb. .52¾- .54¾
solution, 40%, toluol-butanol, dms., works lb. .25½- .26¼
Aloe, Cape, cs. lb. .45 - .48
powd., cs. lb. .50 - —
Curacao, kgs. lb. .50 - .55
Aloin, USP, bbls., dms., kgs. lb. 3.75 - 3.82
Alphanaphthol (see a-Naphthol).
Alphanaphthylamine (see a-Naphthylamine).
Alphanitronaphthalene (see a-Nitronaphthalene).
Alphapicoline (see a-Picoline).
Alphaterpineol (see a-Terpineol).
Alphatocopherol (see a-Tocopherol).
Alum, ammonium, gran., bgs., works 100 lbs. 4.30 - —
lump, dms., works 100 lbs. 5.05 - —
powd., dms., works 100 lbs. 5.20 - —
USP, burnt, dms. lb. .20 - .21
hydrous, dms. lb. .07¾- .08
Potassium, gran., bgs., works, 100 lbs. 4.55 - —
lump, dms., works 100 lbs. 5.30 - —
powd., dms., works 100 lbs. 5.45 - —
USP, burnt, dms. lb. .20 - .21
hydrous, dms. lb. .07¾- .08
Potash-chrome, dms. lb. .17 - —
Sodium, dms., c.l., works 100 lbs. 4.60 - —
l.c.l., works 100 lbs. 5.00 - —

Alumina, calcined, bgs., c.l., works. lb. .0425- —
l.c.l., works lb. .045 - .055
Aluminum acetate, basic soln., 24°, bbls., l.c.l., works lb. .14 - —
Chloride, coml., anhyd., dms., c.l., works, frt. equald lb. .15 - —
l.c.l., works, frt. equald. lb. .1350- —
cryst., dms., c.l., works lb. .1450- —
l.c.l., works lb. .1500- —
soln., 32°, chys., c.l., works lb. .0445- —
l.c.l., works lb. .0520- .1295
tanks, works 100 lbs. 3.45 - —
NF, gran., dms., works lb. .29 - .30
Fluoride, tech., anhyd., bgs., c.l., works lb. .15¾- —
l.c.l., works lb. .16¾- .18¾
Aluminum fluoride in fib. dms. 0.35c. per lb. higher.
Formate, basic soln., chys. lb. .09½- —
l.c.l., works lb. .10 - —
Hydrate, heavy bgs., c.l., frt. equald lb. .0295- —
2,000-20,000 lb. lots, same basis lb. .042 - —
bulk, same basis lb. .027 - —
light, bgs., dlvd lb. .18 - —
Hydroxide, gel, pharmaceutical, 14-15%, Al_2O_3, fib. dms., works lb. .22 - —
contract, works lb. .21 - —
9-9½% Al_2O_3, fib. dms., works lb. .19 - —
contract, works lb. .18 - —
dried, USP, XIV, fib. dms., works lb. .82½- —
contract, works lb. 79½- —
tech., powder (see Aluminum hydrate).
Metal, 99%+, ingots, 10,000-lb. lots, frt. alld lb. .2440- —
pigs, 10,000-lb. lots, frt. alld. lb. .2250- —
Oxide, amorphous (see Alumina, calcined).
Paste, lining, extra-fine, dms. lb. .65½- —
standard grade, dms. lb. .45½- —
Powder, lining, extra, fine, dms. lb. 1.05½- —
standard grade, dms. lb. .75 - —

Aluminum powder and paste prices are f.o.b. shipping point. Add 1c. per lb. for 100-lb. dm., 1½c. per lb. for 50-lb. dm., 3c. per lb. for 10-lb. can and 5c. to 12c. per lb. for smaller containers. Deduct 1c. per lb. for single shipment of 400 to 1,499 lbs., 2c. for 1,500 to 4,999 lbs., 3c. for 5,000 to 29,999 lbs. and 4c. for 30,000 lbs. or more. Where destination is within the continental U. S. a deduction equivalent to the lowest available common carrier transportation rate will be made from seller's invoice on orders of 200 lbs. or over.

Resinate, precip., 2.1% Al, dms., frt. alld lb. .30½- —
Stearate, dibasic, ctns., c.l. lb. .33 - —
l.c.l. lb. .34 - .37
monobasic, ctns., c.l. lb. .33 - —
l.c.l. lb. .34 - .37
tribasic, ctns., c.l. lb. .33 - —
l.c.l. lb. .34 - .37
Sulfate, coml., bulk, c.l., works. 100 lbs. 1.85 - —
grd., bgs., c.l., works ton 37.00 - —
lump, bgs., c.l., works ton 40.00 - —
iron-free, bgs., c.l., works, frt. equald 100 lbs. 3.55 - —
l.c.l., works, frt. equald. 100 lbs. 3.95 - —

Prices $1 per ton higher in the south.

USP, gran., dms., works lb. .16 - .18
powd., dms., works lb. .36 - .37
Trihydrate, heavy (see Aluminum hydrate, heavy).
Ambergris gray, bots. oz. 8.00 - 10.00
Aminoazotoluene, base, bbls., 100% basis lb. 1.03 - 1.18
o-Aminobiphenyl, dms., c.l., works lb. .32½- —
l.c.l., works lb. .33 - —
tanks, works lb. .31 - —
Aminoethyl ethanolamine, dms., c.l., dlvd lb. .46½- —
l.c.l., dlvd. lb. .45 - —
tanks, dlvd lb. .45 - —
2-Amino-2-methyl-1-propanol, cns., dms., l.c.l., works lb. .60 - —
m-Aminophenol, dist., dms., ton lots. lb. 2.05 - —
smaller lots lb. 2.50 - —
p-Aminophenol, dms., frt. alld. lb. .97 - .98
Aminophylline, USP, 100-lb. dms lb. 3.55 - —
Ammonia, anhyd., fertilizer, tanks, works, frt. equald. ton 85.00 - —
refrigeration, tanks, works, frt. equald. ton 87.50 - —
aqueous (29.4% NH_3), dms., c.l., dlvd. Metropolitan area 100 lbs. 3.60 - —
l.c.l., works 100 lbs. 4.00 - —
tanks, works, anhyd. basis. ton 88.00 - —
Ammoniacal liquor (see Ammonia, aqueous).
Ammoniac, sal, gray, bgs., c.l., works, frt. equald 100 lbs. 8.25 - —
l.c.l., same basis 100 lbs. 8.65 - 11.15
white, gran. (see Ammonium chloride, tech.)
Ammonium acetate, purif., dms. lb. .38 - —
Benzoate, USP, dms., kgs., 4,000-lb. lots, frt. alld lb. .80 - —
smaller lots, frt. alld lb. .81 - 1.08
Biborate, gran., dms., c.l., works. ton 319.50 - —
ton lots, ex whse ton 395.00 - —
smaller lots, ex whse ton 400.00 - —
Bicarbonate, dom., dms., c.l., works 100 lbs. 6.50 - —
l.c.l., works 100 lbs. 8.00 - —
imp., dms., l.c.l. lb. .07¼- .08¼
Bichromate, dms., works lb. .42 - .43
Bifluoride, dms., dlvd lb. .2145- .2245
Bromide, NF, gran., bbls lb. .40 - —
Powdered ammonium bromide 10c. per lb. higher.
Carbonate, USP, lump, dms. lb. .16 - —
Chloride, tech., white, gran., fines, bgs., c.l., works 100 lbs. 5.25 - —
l.c.l., works 100 lbs. 7.00 - —
USP, gran., bbls., dms. lb. .17¼- —
Citrate, dibasic, bbls. lb. .75 - —
dms. lb. .80 - .85
Dichromate (see Ammonium bichromate).
Fluoride (see Ammonium bifluoride).
Hydroxide (see Ammonia, aqueous).
Hypophosphite, NF, dms. lb. 3.07 - —
Iodide, NF, dms., bots. lb. 4.26 - 4.38
Linoleate, 80%, dms., works lb. .50 - .55
Nitrate, dom., fertilizer grade, 33.5% N., bgs., western, works, frt. equald ton 68.00 - —
with dolomite, 20.5%N, bgs., Hopewell, Va. ton 51.00 - —
imp., Canadian, 33.5% N, eastern, bgs., c.l., ship't point, frt. equald to $11 per ton. ton 70.00 - —
western, bgs., c.l., f.o.b. cars, Los Angeles ton 82.84 - —
Oxalate, fine gran., dms. lb. .26¼- .31
Pentaborate, gran., bgs., c.l., works ton 187.50 - —
ton lots, ex whse ton 271.50 - —
smaller lots, ex whse ton 276.50 - —
Ammonium pentaborate powder, $10 per ton higher.

To meet your needs . . .

DU PONT SULFURIC ACID

from our new East Chicago plant—

THE WORLD'S LARGEST SINGLE CONTACT UNIT

More than a trainload a week—that's the rate sulfuric acid is turned out by Grasselli Chemical Department's new contact unit at East Chicago, Indiana.

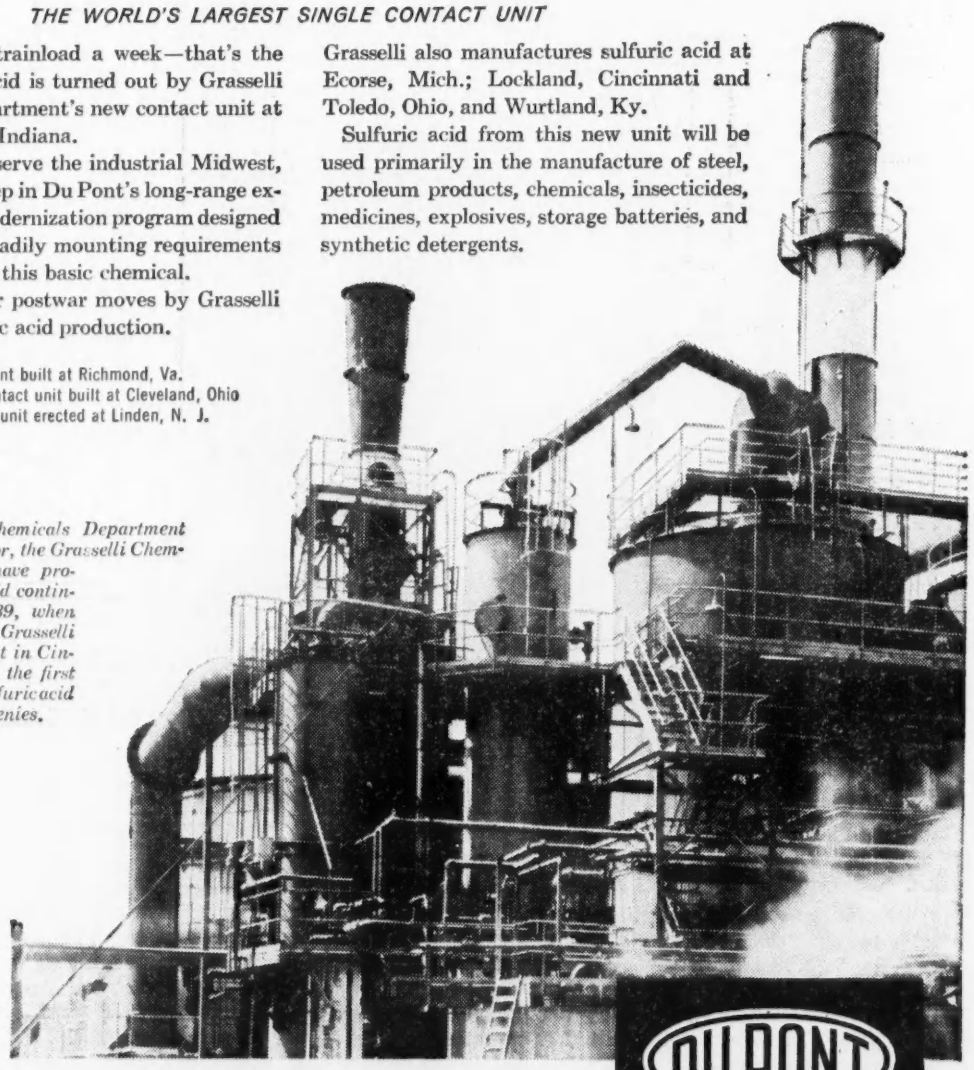
Situated to serve the industrial Midwest, it is another step in Du Pont's long-range expansion and modernization program designed to meet the steadily mounting requirements of industry for this basic chemical.

It joins other postwar moves by Grasselli to boost sulfuric acid production.

1947—New plant built at Richmond, Va.
1949—New contact unit built at Cleveland, Ohio
1953—Contact unit erected at Linden, N. J.

Grasselli also manufactures sulfuric acid at Ecorse, Mich.; Lockland, Cincinnati and Toledo, Ohio, and Wurtland, Ky.

Sulfuric acid from this new unit will be used primarily in the manufacture of steel, petroleum products, chemicals, insecticides, medicines, explosives, storage batteries, and synthetic detergents.



The Grasselli Chemicals Department and its predecessor, the Grasselli Chemical Company, have produced sulfuric acid continuously since 1839, when Eugene Ramiro Grasselli established a plant in Cincinnati, becoming the first man to produce sulfuric acid west of the Alleghenies.

DU PONT
REG. U.S. PAT. OFF.
BETTER THINGS FOR BETTER LIVING . . . THROUGH CHEMISTRY

E. I. du Pont de Nemours & Co. (Inc.), Grasselli Chemicals Department
Wilmington 98, Delaware

FOR PRICE INFORMATION AND SHIPPING DATA, CALL OR WRITE OUR NEAREST DISTRICT OFFICE.

Atlanta 3, Ga.....739 West Peachtree Street
Chicago 32, Ill. 4251 South Crawford Avenue
Cincinnati 2, Ohio...603 Terrace Plaza Bldg.
Cleveland 14, Ohio 1321 National City Bank Bldg.
Detroit 35, Mich....13000 West 7 Mile Road
Houston 25, Texas 1100 East Holcombe Blvd.
Minneapolis 2, Minn.....1207 Foshay Tower
New York 1, N. Y.....350 Fifth Avenue
Philadelphia 3, Pa. 1617 Penna. Blvd., Room 860
Pittsburgh 19, Pa.....1715 Grant Bldg.
St. Louis 7, Mo.....112 West Ferry Street
San Francisco 19, Calif. 1400 Sixteenth Street

In Canada—Du Pont Company of Canada Limited, Box 660, Montreal, P. Q.

Ammonium persulfate, kgs..... lb. .38 - .47½
Phosphate, coml., bgs., c.l., works, frt. equald lb. .0865- —
t.c.l., same basis lb .09 - —
dibasic, NF, V bbls., dms. .lb. .46 - —
tech., bgs. c.l works, frt. equald lb. .0865- —
l.c.l., same basis lb. .0915- —
Salicylate, NF, dms., kgs lb. 1.62 1.64
Silicofluoride, dms., works....lb. .11¾- .13¼
Sulfamate, bgs., c.l., t.l., works. lb. .18 - —
l.c.l., works lb. .22 - —
Sulfate, coke-oven, bulk, producing ovens, base price.....ton.42.00 -45.00
Aug.-Sept. shipt. .....ton.40.00 -43.00
Oct.-Dec. shipt .....ton.41.00 -44.00
syn., bulk, c.l., works.....ton.42.00 -46.00
Aug.-Sept. shipt. .....ton.40.00 -44.00
Oct.-Dec. shipt. .....ton.41.00 -45.00
purif., dms., works ..... lb. .09 - .09½
Sulfide, liq., 40-44%, dms., c.l., frt. equald., 100% basis. ton.240.00 - —
l.c.l., works, 100% basis. ton.300.00 - —
tanks, frt. alld., 100% basis. ton.180.00 - —
Sulfocyanide, tech. (see Ammonium thiocyanate).
Thiocyanate, tech., dms., c.l., works lb. .20 - —
l.c.l., works lb. .22 - .26
Thioglycollate, coml., cbys., 100% basis lb. 1.35 - 1.55
highly purif., cbys., 100% basis. lb. 1.70 - 1.95
Thiosulfate, cryst., photo grade, fib. dms., frt. alld ....lb. .65 - —
60% soln., dms., c.l., works lb. .06½- —
d-Amphetamine hydrochloride dibasic, bots. lb.28.00 - —
dl, dms ....lb. 6.00 - —
d-monobasic, bots .....lb.28.00 - —
d-Phosphate, dibasic, bots.....lb.28.00 - —
dl, dms .....lb. 6.00 - —
d-Sulfate, dms... .....lb 28.00 - —
dl, dms lb. 6.00 - —
Amyl acetate, ex fusel oil, tech., dms., c.l., frt. alld. E. of Rockies lb. .22 - —
l.c.l., same basis ....lb. .23 - —
tanks, same basis ....lb. .20 - —
syn., oxo process, dms., c.l., dlvd.....lb. .19¼- —
l.c.l., dlvd.....lb. .20¼- —
tanks, dlvd .....lb. .17¼- —
ex pentane, reg., dms., c.l., dlvd..lb. .17 - —
l.c.l., dlvd.....lb. .18 - —
tanks, dlvd .....lb. .15 - —
tech., dms., c.l., dlvd.....lb. .15 - —
l.c.l., dlvd.....lb. .16 - —
tanks, dlvd .....lb. .13 - —
Alcohol (see Alconol amyl).
n-butyrate, dms. .....lb. .90 - 1.25
Cinnamic, aldehyde, dms.....lb. 1.75 - 2.20
Nitrite, USP, bots .....lb. 1.75 - 1.83
Salicylate, cns., dms..... lb. .74 - 1.05
o-tert-Amyl phenol, dms., c.l., works. lb. .48 - —
l.c.l., works..... lb. .49 - —
tanks, works..... lb. .46 - —
p-tert-Amyl phenol, dms., c.l., works. lb. .25¾- —
l.c.l., works..... lb. .26¾- —
tanks, works..... lb. .24¾- —
Anethole, NF, cns., dms.....lb. 1.85 - —
tech., dms .....lb. 1.10 - —
Angelica root, dom., bls ... lb. .60 - .70
Aniline oil, dms., c.l., works, frt. alld lb. .21 - —
l.c.l., works, frt. alld lb. .22 - —
tanks, works, frt. alld lb. .20 - —
Salt, dms., c.l., truckloads, 20,000 lbs., min., frt. alld. lb. .31 - —
l.c.l., same basis .....lb. .33 - —
Anise seed, Mexican, bgs.....lb. No prices.
Spanish, bgs. .....lb. .28 - .29
Anisic aldehyde, bots. dms.....lb. 1.80 - 2.70
o-Anisidine, dms., works .....lb. .88 - —
p-Anisidine, dms., works .....lb. .97 - —
Annatto seed, whole, bgs..... lb. .24 - —
powd., dms. ..... lb. .28 - —
Anthracene, 90-95%, bbls., ton-lots, works lb. .70 - —
smaller lots, works lb. .95 - —
Anthraquinone, 99.5%, bbls, c.l., frt. alld lb. .83 - —
l.c.l., same basis.... lb. .86 - —
electrical grade, bbls., l.c.l., same basis lb. .91 - —
Antimony butter (see Antimony trichloride).
Metal, bulk, c.l., mines.....lb. .33 - —
cs., c.l., mines .....lb. .33½- —
Oxide, bgs., c.l., frt. alld.....lb. .27 - .29
l.c.l., frt. alld .....lb. .28½- .30½
Sulfide, approx. 65%, bgs., dlvd. lb. .23 - .26
Trichloride, anhyd., solid, pails, c.l., works lb. .41 - —
l.c.l., works..... lb. .43 - —
Antimony-potassium tartrate, tech., powd., dms lb. .60½- .65½
USP, powd., dms .....lb. .64 - .65
Antipyrine, NF, 200-lb. bbls..... lb. 3.50 - —
Apomorphine hydrochloride, USP, bots oz.23.40 -23.90
Areca nuts, powd., bbls .....lb. .15 - .16
Arecoline hydrobromide, NF, bots., tins oz. 4.50 - 6.00
l-Arginine monohydrochloride, dms., 1 kilo lots kilo.74.00 -83.00
Arnica flowers (true montana), bls. lb. 3.00 Nom.
Arsenic metal, lump, bbls., ex whse. lb. .54 - —
Trioxide, USP, dms..... lb. .48 - —
White, powd., bbls., c.l., dlvd. lb. .05½- —
l.c.l., dlvd..... lb. .06½- .07½
Asafetida, cs..... lb. .36 - .39
powd., bbls., dms..... lb. .50 - .53
Asbestine (see Talc, fibrous, N. Y.)
Asbestos, Canadian, crude, No. 1, c.l. (20 tons), mines ton.1,300.00- —
No. 2, c.l. (20 tons), mines.ton.675.00 - —
Run-of-mine, c.l., (20 tons), mines ton.556.00 - —
3K, c.l. (20 tons), mines ton.436.00 - —
3R, c.l. (20 tons), mines ton.371.00 - —
3T, c.l. (20 tons), mines ton.348.00 - —
4Z, c.l. (20 tons), mines ton.321.00 - —
4K, c.l. (20 tons), mines ton.173.00 - —
4M, c.l. (20 tons), mines ton.173.00 - —
4T, c.l. (20 tons), mines ton.156.00 - —
4Z, c.l. (20 tons), mines ton.156.00 - —
5D, c.l. (20 tons), mines ton.122.50 - —
5K, c.l. (20 tons), mines ton.122.50 - —
5M, c.l. (20 tons), mines ton.116.50 - —
5R, c.l. (20 tons), mines ton.110.00 - —
6D, c.l. (30 tons), mines ton.78.00 - —
7D, c.l. (30 tons), mines ton.68.50 - —
7F, c.l., (30 tons), mines ton.65.00 - —
7H, c.l. (30 tons), mines ton.55.00 - —
7K, c.l. (30 tons), mines ton.46.00 - —
7M, c.l., (30 tons), mines ton.40.00 - —
7R, c.l. (30 tons), mines ton.39.00 - —
7RF, c.l. (30 tons), mines ton.40.00 - —
7T, c.l. (30 tons), mines ton.37.00 - —
7TF, c.l. (30 tons), mines ton.40.00 - —
8S, c.l., (30 tons), mines ton.27.00 - —
Asbestos c.l. prices are in U. S. funds, l.c.l., lots, $4 per ton higher.
Asphalt, gilsonite, black, jet, bgs., c.l., mines ton.37.00 - —
select, 350° F., fusing pt., bgs., c.l., mines ton.38.00 - —
select, 270°-295°F., fusing pt. bgs., c.l., mines ton.37.00 - —
seconds, 300° - 330°F. fusing pt., bgs., c.l., mines ton.32.00 - —
Manjak, No. 10, crude, dms., works lb. .06¼- —

Asphalt, petroleum, cut-back, tanks, tankwagon, refy. gal. .09 - —
emulsion, tanks, tankwagon, refy gal. .09¼- .10
steam-refd., 50-80 penetration, tanks, tankwagon, refy ton.21.00 - —
85-300 penetration, tanks, tankwagon, refy ton.20.00 - —
Aspirin (see Acid, acetylsalicylic).
Atropine, USP, bots ..... oz. 6.25 6.75
Sulfate, USP, bots..... oz. 4.00 4.20

B

Bacitracin, bulk, 1,000,000,000 or more units 50,000 units. .70 - —
less than 1,000,000,000 units 50,000 units. .75 - —
Balm of Gilead buds, dried, bgs lb. 1.35 - 1.45
Barberry, root bark, bgs..... lb. .28 - .30
Barbital, USP, 100-lb. dms ..... lb 4.50 —
Sodium, USP, dms ..... lb 4.75 4.77
Barium carbonate, precip., bgs., c.l., works ton.100.00 - —
smaller lots, works....ton.110.00 - —
Chlorate, kgs., works..... lb. .32 - .36
Chloride, anhyd., bgs., c.l., works. ton.165.00 - —
l.c.l., works.....ton.175.00 - —
NF, cryst., dms..... lb. .20 - —
tech., cryst., dms., c.l., works. 100 lbs. 6.50 - —
l.c.l., works..... 100 lbs. 7.00 - —
Chromate, bgs., frt. equald . lb. .35 - —
Dioxide (see Barium peroxide).
Hydrate, cryst., bgs.....ton.190.00 - —
Monoxide (see Oxide).
Nitrate, bbls., c.l., works.....lb. .12½- —
t.c.l., works..... lb. .14 - —
Barium oxide, grd., dms., frt. equald..ton.255.00 - —
t.c.l., works ton.265.00 - —
Peroxide, dms., works.....lb. .16 - —
Stearate, cns., c.l., frt. alld. lb. .37 - —
t.c.l., same basis lb. .38 - .43
Sulfate, tech. (see Barytes and Blanc fixe).
X-ray, dms. .....lb. .15 - .15½
Sulfide, dms., c.l., works....ton.85.00 - —
t.c.l., works..... ton.95.00 - —
Barytes, Southern, off-color, bgs., mines ton.25.00 - —
95-75%, bgs., mines ton.25.00 - —
water-grd., paper bgs., c.l., E. St. Louis ton.41.60 - —
ex-whse., N. Y.....ton.60.10 - —
Bauxite, bulk, mines.....ton. 6.75 -10.00
Bay leaves (see Laurel leaves).
Belladonna leaf, bls.....lb. .35 - .37
root, bls.....lb. .45 - .50
Bentonite, dom., 200 mesh, bgs., c.l., mines ton.14.00 - —
imp. Italian, white, high gel., bgs., 5-ton lots, ex whse. ton.80.60 - —
1 ton-lots, ex whse. ton.83.10 - —
low gel., bgs., 5-ton lots, ex whse. ton.78.93 - —
1-ton lots, ex whse ....ton.81.45 - —
Benzal chloride, cbys., works....lb. .22 - .23½
Benzaldehyde, NF, dms.....lb. .74 - 1.05
tech., cbys., dms .....lb. .44 - —
Benzene (see Benzol).
Hexachloride, 25% and 99% gamma isomer (see Lindane).
tech., high gamma, bgs., c.l., dlvd., gamma unit-lb. .0075- —
l.c.l., works, gamma unit-lb. .009 - —

Ammonium Persulfate—Benzoyl Peroxide

Benzene hexachloride, tech., low gamma, bgs., c.l., dlvd., gamma unit-lb. .007 - .0075
l.c.l., works, gamma unit-lb. .0075- .009
Benzidine hydrochloride, bbls., frt. alld., 100% basis lb. 1.00 —
Benzocaine, dms. .....lb. 3.48 - 3.50
Benzol, coaltar, pure or nitration, tanks, works:—
Bethlehem, Pa gal. .36 - —
Birmingham district gal. .36 - —
Chicago district .... gal. .36 - —
Cleveland district.....gal. .36 - —
Geneva, Utah .....gal. .36 - —
Johnstown, Pa. .....gal. .36 - —
Lackawanna, N. Y.... gal. .36 - —
Lone Star, Texas..... gal. .36 - —
Lorain, Ohio .....gal. .36 - —
Middletown, Ohio.....gal. .36 - —
Minnequa, Colo .... gal. .36 - —
Philadelphia district . gal. .36 - —
Pittsburgh district . gal. .36 - —
Sparrows Point, Md. gal. .36 - —
Syracuse, N. Y. gal. .36 - —
Terre Haute, Ind. .... gal. .36 - —
Youngstown, Ohio.....gal. .36 - —
Benzophenone dms lb. 1.40 1.70
Benzotrichloride, cbys., frt. equald. lb 18 .20
Benzoyl chloride, cbys., dms., c.l., works, frt. equald lb. .22 - —
l.c.l., same basis lb. .23 - —
tank trucks, dlvd. Metropolitan area lb. .21 - —
Peroxide, purif., fib. dms., 50 to 1,000-lb. lots, works lb. .98 1.08

Allyl Chloride

$CH_2=CH-CH_2Cl$

Allyl Alcohol

$CH_2=CH-CH_2OH$

Sources of many derivatives—insecticides, perfumes, pharmaceuticals, flavorings. Intermediates for resins in adhesives, varnishes, ion-exchange resins.

You can be sure of high purity product and dependable supply when you order the allyls from Shell Chemical. For more than 15 years, Shell has been the nation's sole supplier of commercial quantities of these important raw materials.

Allyl chloride and allyl alcohol are available in drums and tank cars. Conveniently located depots assure prompt shipment.

Your Shell Chemical representative will gladly discuss your allyl alcohol and allyl chloride requirements with you. Write for samples.

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CHEMICAL PARTNER OF INDUSTRY AND AGRICULTURE
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IN CANADA: Chemical Division, Shell Oil Company of Canada, Limited • Montreal • Toronto • Vancouver

Benzyl Acetate—6-tert-Butyl-m-cresol

Benzyl acetate, f.f.c., cns., dms lb. .62 - 1.04
Alcohol (see Alcohol, benzyl).
Benzoate, USP, f.f.c. cns. dms.lb. .62 - 1.10
Chloride, tech., 13-gal. cbys., dms., c.l., works, frt. equald lb. .23 - —
l.c.l., same basis lb. .24 - —
tank trucks, same basis lb. .21 - —

A 2½c. differential is quoted on benzyl chloride in 5-gal. cbys. In steel dms. prices were ½c. lower.

Cinnamate, cns. lb 3.60 - 3.90
Formate cns. lb 1.30 - 2.10
Isoeugenol, cns. lb 8.60 - 9.10
Propionate, bots. lb 1.35 - 1.65
Salicylate, bots. lb 1.50 - 1.85
Benzylidine acetone, bots lb. 1.68 - 1.80
Chloride (see Benzal chloride).
Berberine bisulfate, cns lb.35.00 -36.25
Hydrochloride, bots. lb.35.00 -36.25
Betagammapicoline (see b.g-Picoline).
Betamethylnaphthalene (see b-Methylnaphthalene)
Betanaphthol (see b-Naphthol).
Betanaphthylamine (see b-Naphthylamine).
Betaphenylethylamine (see b-Phenylethylamine).
BHC (see Benzene hexachloride, technical)
Biotin cryst., bots gram 10.00 - —
Biphenyl (see Diphenyl).
Bismuth chloride, jars lb 5.11 - —
Hydroxide, dms. lb 4.65 - —
Metal, hxs. ton lots lb 2.25 -
Nitrate, cryst., dms lb. 2.10 - 2.17
Oxide, anhyd., dms lb 4.47 - 5.05
Oxychloride, dms lb 4.37 - 4.42
Phenolsulfonate, fib dms lb 5.22 - —
Subcarbonate, USP, dms lb. 3.20 - —
Subgallate, NF, fib. dms lb. 3.15 - —
Subiodide, fib. dms. lb. 5.37 - —
Subnitrate, NF, dms lb. 2.65 - —
Subsalicylate, USP, dms lb. 3.50 - —
Bismuth-ammonium citrate, USP, powd. jars lb. 4.22 - —
Black, acetylene, imp., bgs., c.l., duty and freight extra lb. .17 - —
cs., l.c.l., ex whse lb. .22½ - .26
Ash (see Barium sulfide).
Bone dms. l.c.l., frt. alld lb. .12 .23¼
Pacific coast bone black prices, 2c. per lb. higher
Carbon, channel, pigment, high color, beads, ctns., c.l., works, lb. .72 - —
l.c.l., dlvd or whse. lb. .78 - —
medium color, uncompressed, bgs., c.l., works, lb. .12 - —
l.c.l., dlvd or whse. lb. .19 - —
rubber, beads, bulk, c.l., works lb. .07 - —
bgs. c.l., works lb. .074 - —
l.c.l., works lb. .1225- —
furnace, fast extruding, bgs., c.l., works lb. .06 - —
ctns., l.c.l., whse lb. .10 - —
high abrasion, bulk, c.l., works, lb. .0750- —
bgs., c.l., works lb. .0790- —
l.c.l., dlvd. or whse lb. .122 .125
high modulus, bgs., c.l., works, lb. .0550- —
ctns., l.c.l., whse lb. .0950- —
semi-reinforcing bgs., c.l., works lb. .045 - —
bgs., ctns., l.c.l., whse lb. .085 - —
Black, charcoal (see C).
Dyes (see Dyes).
Graphite (see G).
Iron oxide, pure, bgs., c.l., works lb. .13¼- —
l.c.l., works lb. .13½- —
Lamp, bgs., c.l., works lb. .16 - .43
Mineral, bgs., works lb. .0160- .0675
Blackberry root bark, bls lb. .45 - —
Black haw root bark, bls lb. .63 - .65
tree bark, bls lb. .40 - .43
Blanc fixe, dry, byproduct, bgs., c.l., works ton.190.00 - —
l.c.l., works ton.200.00 - —
direct process, bgs., c.l., works, ton.100.00 - —
l.c.l., works ton.110.00 - —
N. Y. whse ton.140.88 -165.00
Bleaching powder, dms., c.l., works, 100 lbs. 5.02 - —
l.c.l., works 100 lbs. 6.52 - —
Blood, dried, 16-16½% ammonia, bgs. unit-ton. 5.50 - —
high-grade, unground, 16-17% ammonia, bgs., Chicago, unit-ton. 5.75 - —
soluble, bgs., c.l. lb. .14 - .17
l.c.l. lb. .18 - .25
Bloodroot, bls. lb. .48 - .50
Blue, alkali, dry, 250-lb. bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R. including St. Paul, Minneapolis, Davenport, Rock Island, St. Louis lb. 2.10 - —
toner, 125-lb. bbls., litho flushed, same basis lb. 1.20 - —
Chinese, bbls., same basis lb. .49 - —
Cobalt, genuine, bbls., same basis lb. 4.90 - —
Imitation (see Blue ultramarine).
Dyes (see Dyes).
Iron (see Blue, Chinese, Milori, Potash, Prussian and Soda).
Blue, methyl violet toner, molybdated, PMA, bbls., same basis lb. 2.60 - —
tungstated, PTMA, bbls., same basis lb. 4.00 - —
Milori, bbls., same basis lb. .49 - —
Peacock, fugitive, 100% color strength, bbls., same basis, lb. .75 - —
Phthalocyanine, full strength, bbls., same basis lb. 3.45 - —
resinated, bbls., same basis lb. 3.00 - —
water dispersable, bbls., same basis lb. 1.54 - —
Potash, CP, bbls., same basis lb. .56 - —
Prussian, insoluble, bbls., same basis lb. .49 - —
soluble, bbls., same basis lb. .49 - —
Soda, CP, bronze, bbls., same basis lb. .56 - —
Ultramarine, cobalt type, dry or pulp, bbls., same basis lb. .30½- .35
jobbing types, bbls., same basis, lb. .16½- .18¼
regular types, dry, bbls., same basis lb. .22½- .35
Victoria toner, molybdated, PMA, bbls. lb. 4.10 - —
tungstated, PTMA, bbls. lb. 5.15 - —

Blue dry colors, dlvd. prices ½c. higher Ala., Fla., Ga., La. (Shreveport 1½c.), Miss., N. C., S. C., Tenn., Tex. (El Paso 2c.), Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph 1.6c. higher. Pac. Coast, Denver, Pueblo, Salt Lake City, Wichita, frt. equalized with Chicago.

Vitrol (see Copper sulfate).
Bluestone (see Copper sulfate).
Bonemeal, steamed, works, E. ton.65.00 - —
Los Angeles ton.82.00 - —
Bone phosphate defluorinated (see D)
of lime (see Calcium phosphate, tribasic).
precipatated (see Calcium phosphate tribasic, NF, precip.).
Borax, tech., anhyd., 99½%, bgs., c.l., works ton.80.50 - —
ton lots ex whse N. Y. or Chicago ton.130.25 - —
bulk, c.l., works ton.71.50 - —
cryst., 99½%, bgs., c.l., works, ton.69.25 - —
ton lots, ex-whse., N. Y. or Chi ton.119.00 —
smaller lots, same basis, ton.124.00 - —
gran., decahydrate, 99½%, bgs., c.l., works ton.43.25 - —
ton lots, ex whse., N. Y., Chi ton.93.00 - —
smaller lots, same basis, ton.98.00 - —
bulk, c.l., works ton.36.75 - —
pentahydrate, 99½%, bgs., c.l., works ton.57.75 - —
ton lots, ex whse., N.Y., Chi ton.107.50 - —
smaller lots, same basis, ton.112.50 - —
bulk ton.51.25 - —
powd., 99½%, bgs., c.l., works, ton.48.25 - —
ton lots, ex-whse., N. Y. or Chi ton.98.00 - —
smaller lots, same basis, ton.103.00 - —

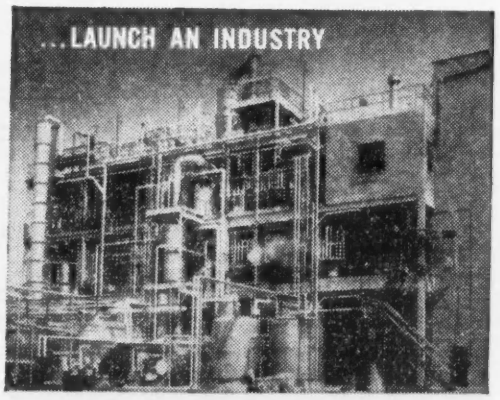
Borax packed in kgs., $45.50 per ton higher than in paper bgs.; in barrels, $24.50 higher. USP borax $15 per ton higher.

Bordeaux mixture, bgs., c.l., works, frt. alld. or nearest whse. pt lb. .18 - .24
l.c.l., same basis lb. .19 - .26
Borneol, cns lb. 2.50 - 4.50
Borontrifluoride gas, cyls., truckload, works lb. .62 - —
lers truckload, works lb. .70 - —
Brazilwood extract (see Hypernic extract).
Brimstone (see Sulfur).
Bromine, purif., cs., c.l., t.l., dlvd. E. of Rockies lb. .31 - —
l.c.l., same basis lb. .33 - .38
ret. dms., c.l., t.l., dlvd. E. of Rockies lb. .30 - —
l.c.l. same basis lb. .30 - .32
tanks, same basis lb. .21½- —
Bromochloromethane, dms., c.l., frt. equald lb. .43 - —
l.c.l., same basis lb. .50 - —
Bromoform, pharmaceutical grade, bots lb. 1.62 - 2.60
cbys. lb. 1.52 - —
Bromstyrol, bots lb. 5.40 - 5.70
Bronze powder aluminum (See A).
Brown, iron oxide, pure, bgs., c.l., works lb. .14¼- —
l.c.l., works lb. .14½- —
Oxide, metallic, bgs, works lb. .04 - —
Sienna, burnt, paper bgs., c.l., works lb. .04¼- .15¼
l.c.l., works lb. .04½- .15¼
raw, paper, bgs., c.l., works lb. .04½- .13
l.c.l. works lb. .04¾- .13¼
Umber, burnt, American, bgs., c.l., works lb. .06 - —
l.c.l., works lb. .06¼- .07
Turkey type, bgs., c.l. Boston, Bethlehem Easton Pa., Hiwassee, Va., N. Y lb. .06¾- —
l.c.l., works lb. .07 - —
raw, American, bgs., works lb. .06¾- .06¼
Turkey-type, bgs., works lb. .06¾- .07
Vandyke bbls., works lb. .09½- .12
Brucine, cns., 100-oz. lots oz. .20 - .25
Sulfate, NF, cns., 100-oz. lots oz. .15 - .20
Buchu leaves, bls lb. .65 - —
Butadiene, refd., cyls., c.l. refy lb. .21 - —
l.c.l., refy. lb. .22 - —
tanks, refy lb. .15 - —
Butane, indust., tanks, group 3 gal. .02½- —
N. Y. harbor gal. .08 - —
n-Butyl acetate, ferment., dms., c.l., frt. alld lb. .15 - —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13 - —
syn., dms., c.l., dlvd. E. lb. .15 - —
l.c.l., same basis lb. .16 - —
tanks, same basis lb. .13 - —
sec-Butyl acetate, syn., dms., c.l., dlvd. E. lb. .12½- —
l.c.l., same basis lb. .13¼- —
tanks, same basis lb. .10¾- —
Butyl alcohol (see Alcohol, n-Butyl).
Aldehyde (see Butyraldehyde)
Chloride, dms., c.l., works lb. .37½- —
l.c.l. works lb. .38 - —
Ether, dms., c.l., works lb. .32¾- —
l.c.l., works lb. .33¼- —
tanks, works lb. .31 - —
Lactate, dms., c.l., frt. alld. E. of Rockies lb. .42 - —
l.c.l., same basis lb. .47 - —
tanks, same basis lb. .40 - —
Laurate, dms., works lb. .39 - —
Methacrylate, dms., c.l., t.l., works, lb. .70 - —
l.c.l., works lb. .55½- —
Oleate, refd., dms., l.c.l., works lb. .32 - —
Phenylacetate dms lb. 4.50 - 4.60
Phthalate (see Dibutyl phthalate).
Stearate, dms. l.c.l., frt. equald lb. .24 - .27
Butylamine (see mono-, di-, and tri-).
6-tert-Butyl-m-cresol, dms., c.l., works lb. .49 - —
l.c.l., works lb. .50 - —
tanks, works lb. .48 - —

HOW HERCULES HELPS...

EXCITING NEW DISHES AND CUTLERY, both molded with a new Hercules plastic, Hercocel® W, are as durable as they are beautiful. A product of Hercules research, Hercocel W is a low-cost thermoplastic combining high heat resistance and good dimensional stability with exceptional toughness and impact strength. (Tranquil ware dishes by Byrd Plastics, Inc.; cutlery by Royal Brand Cutlery Company, a Division of National Silver Company, Brooklyn, New York.)

HANDY CONTAINERS and display rack for Hercules smokeless powders work two ways—they make it easier for the sportsmen who do their own loading to select the right powder, and convenient for the dealer to arrange an eye-catching display. Hercules powders have long been the favorite with handloaders who want accuracy and economy.



A MILLION POUND A MONTH PLANT is now producing dimethyl terephthalate at Burlington, N. J. Largest single user: Canadian Industries (1954) Ltd., in the synthetic fiber 'Terylene'. Hercules' plant, first to make DMT by air oxidation, is designed to expand as markets grow.

HERCULES POWDER COMPANY
INCORPORATED
939 Market St., Wilmington 99, Del. Sales Offices in Principal Cities
SYNTHETIC RESINS, CELLULOSE PRODUCTS, CHEMICAL COTTON, TERPENE CHEMICALS, ROSIN AND ROSIN DERIVATIVES, CHLORINATED PRODUCTS, OXYCHEMICALS, EXPLOSIVES, AND OTHER CHEMICAL PROCESSING MATERIALS.

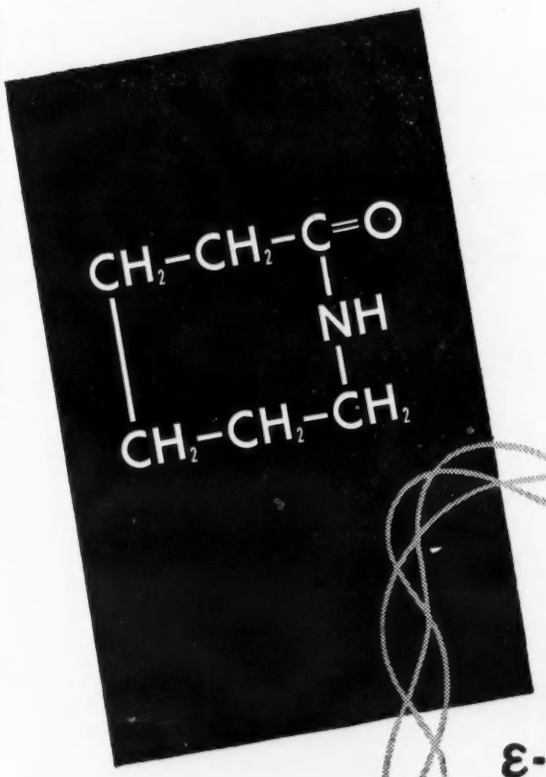
HERCULES
CHEMICAL MATERIALS FOR INDUSTRY

655-9

p-tert-Butylphenol, bgs., c.l., works lb. .25½- —
l.c.l., works lb. .26½- —
Butyraldehyde, dms., c.l., dlvd lb. .21½- —
l.c.l. dlvd lb. .22½- —
tanks, dlvd lb. .19½- —
Butyric ether (see Ethyl butyrate).

C

Cacao butter (see Cocoa butter).
Cadmium iodide, 25-lb. fib. dms lb. 6.75 - 7.00
Metal ingots or sticks, cs., dlvd. lb. 1.70 - —
Caffeine, USP, nat., cryst., anhyd., dms., 100-lb. lots or more lb. 3.00 - —
hydrous, dms., 100-lib. lots or more lb. 2.80 - —
syn., cryst., anhyd., dms., 100-lb. lots or more lb. 3.00 - —
hydrous, 100-lb. lots or more, lb. 2.80 - —
citrated, USP, dms., 100-lb. lots or more lb. 2.70 - —
Calamine, USP, dms lb. .34 - —
Calciferol, cryst., vials, 1-kilo lots, works gram. .60 - —
25 to 100 gram lots, works, gram. .65 - —
in edible oil (see Viosterol).
Calcium p-aminosalicylate, fib., dms., 1,000 lb. lots, frt. adjusted lb. 7.00 - —
smaller lots, same basis lb. 7.05 - 7.50
Arsenate, dealers, drums., c.l., whse., works, frt. alld. on 95 lbs. or over lb. .09 - .10
l.c.l., same basis lb. .10 - —
Bromide, NF, jars lb. .94 - .98
Carbide, standard generator size, dms., c.l., dlvd. ton.134.40 - —
Carbonate, nat., dry-grd., air floated, 325 mesh, bgs., c.l., works ton. 7.50 -10.00
chalk, whiting, 325 mesh, bgs., works ton.32.00 -34.00
water-grd., ½ to 10 microns, bgs., c.l., works ton.30.00 - —
10 to 20 microns, bgs., c.l., works ton.17.00 -18.00
precip., dense, bgs., c.l., works, ton.30.00 -33.00
l.c.l., works ton.40.00 -48.00
medium, bgs., c.l., works ton.35.00 - —
l.c.l., works ton.45.00 -50.00
surface treated, bgs., c.l., works ton.35.00 -50.00
l.c.l., works ton.45.00 -65.00
ultrafine, bgs., c.l., works, ton.110.00 -160.00
l.c.l., works ton.120.00 -175.00
Chloride, cryst., purif., dms. lb. .27 - —
flake, 77-80%, paper bgs., c.l., works, frt. equald ton.29.00 - —
liquor, 40%, tanks, frt. equald, ton.12.35 - —
pellets, bgs., c.l., works ton.35.00 - —
powd., bgs., c.l., works ton.39.65 - —
solid, 73-75%, dms., c.l., frt. equald ton.27.50 - —
l.c.l., works, same basis, ton.34.00 -71.00
USP, gran., dms. lb. .32 - —
Chromate, bgs., frt. equald lb. .29½- .30
Cyanide, dms., dlvd. E. of Rockies lb. .24 - .50
Cyclamate, 100-lb. fib. dms. lb. 2.95 - —
Gluconate, AA, bbls., dms. lb. .70 - .72
USP, bbls., dms lb. .53 - .65
Hydride, dms., works lb. 2.15 - 3.00
Hypochlorite, high test, cased (45 lbs.), dlvd. E. of Rockies cs.22.60 -24.75
dms., 100-lb., same basis dm.28.65 -32.50
Hypophosphite, dms., ton lots or less lb .90 - .93
Iodide, jars lb. 4.52 - —
Lactate, USP, dms., 10,000-lb. lots or more, works lb. .40 - —
smaller lots, works lb. .41 - .48
Mandelate, USP, dms, works lb. 2.10 - 2.25
Naphthenate, liq., 4% Ca., dms., frt. equald lb. .27¼- —
Nitrate, fertilizer grade, bgs., c.l., Los Angeles ton.46.00 - —
tech., dms., works lb. .13 - —
Pantothenate, jars, 100-gram lots or more, frt. adjusted gram. .06 - —
Para-aminosalicylate (see Calcium p-Aminosalicylate).
Phenolsulfonate, dms lb. .70 - —
Phosphate dibasic, USP, bgs., c.l., frt. equald 100 lbs. 7.10 - —
l.c.l., frt. equald 100 lbs. 7.60 - 7.95
feed grade, 18½% P, bgs., c.l., t.l., frt. equald ton.74.00 - —
l.c.l., frt. equald ton.79.00 - —
20% P, bgs., c.l., t.l., frt. equald ton.84.55 - —
l.c.l., frt. equald ton.96.00 - —
21% P, bgs., c.l., t.l., frt. equald ton.84.00 - —
l.c.l., frt. equald ton.89.00 - —
monobasic, bgs., 10,000-lb. lots, frt. equald 100 lbs. 6.05 - —
smaller lots, same basis, 100 lbs. 6.55 - —
tribasic, NF, precip., bgs., c.l., frt. equald 100 lbs. 7.60 - —
l.c.l., frt. equald 100 lbs. 7.95 - —
Phytate, bgs., works lb. .37 - —
Resinate, precip., dms., frt. alld., works lb. .30½- —
Silicate, hydrated, bgs., c.l., works, lb. .06 - —
l.c.l., works lb. .06½- —
paint grade (see Wollastonite).
Stearate, ctns., c.l. lb. .35 - —
l.c.l. lb. .36 - .40
Sulfate (see Gypsum).
Calomel, USP, powd., dms lb. 5.42 - —
Camphene 46° m.p., dms., incl., c.l., works lb. .15 - —
l.c.l., same basis lb. .16½- —
tanks, same basis lb. .12½- —
Chlorinated, 67-69% (see Toxaphene).
Camphor, monobromated, NF, dms., kgs lb. 3.25 - 3.67
nat., USP, powd., cs., 100-lb. lots, lb. .85 - —
tablets, 1-oz., ½-oz. cs. lb. .85 - —
syn., tech., 1 bbl. or more lb. .52 - —
USP, gran., powd., bbls, 2,000-lb. lots lb. .59 - —
1,000-lb. lots lb. .60 - —
smaller lots lb. .61 - —
tablets, tins, 2,000-lb. lots lb. .90 - —
1,000-lb. lots lb. .91 - —
smaller lots lb. .92 - —
Canada balsam (see Fir balsam).
Cantharides, Chinese, cs. lb. 2.00 - 2.05
powd., bxs lb. 2.25 - 2.30
Russian, bgs. lb. 4.00 - 4.05
powd., bxs lb. 4.35 - 4.40
Capsicum (see Pepper red).
Oleoresin, NF, from domestic pepper, dms. lb. 4.50 - 5.25
from African pepper, dms. lb. 4.35 - 5.00
Caraway seed, Dutch, bgs lb. .17½- .18
Carbazole, 97%, bbls., ton lots, works lb. 1.05 - —
Carbinol, methyl isobutyl (see Methyl isobutyl carbinol).
Carbon dioxide, indust., wholesale, bulk, dlvd. metropolitan area, ton.73.00 -115.00
cyls., same basis lb. .08 - —
solid, same basis lb. .035 - .040
Disulfide, 55-gal. dms., c.l., works, frt. alld. to competitive points lb. .07 - —
l.c.l., same basis lb. .08½- .09
5-gal. dms., 30 dms. to c.l., same basis lb. .13 - —
less than 30 dms lb. .16 - —
tanks, same basis lb. .0515- —
Tetrachloride, CP, consumers, dms., c.l., l.c.l., frt alld lb. .11½- .13¼
tech., consumers, dms., c.l., E. Rockies, frt. alld lb. .10½- —
W. of Rockies, f.o.b. stockpoints lb. .11 - —
l.c.l., E. of Rockies, frt. alld lb. .12¼- —
W. of Rockies, f.o.b. stockpoints lb. .12¾- —
tanks, E. of Rockies, frt. alld lib. .09 - —
W. of Rockies, f.o.b. stockpoints lb. .09½- —
Carboxymethyl cellulose (see CMC).
Carbromal, NF, dms., 100-lb. lots, works lb 4.00 - 4.25
smaller lots, works lb 4.10 - 4.75
Cardamom fruit, fancy, bold, cs. lb. 3.88 - —
selected, bleached, cs. lb. 3.65 - —
decorticated, Ceylon, cs. lb. 2.55 - —
Guatemalan, cs. lb. 2.25 - —
green, Ceylon, bgs. lb. 1.90 - —
seed (see Cardamom fruit decorticated).
Carmine, No. 40, NF, bulk, 100-lb. lots or more, dlvd. lb.14.40 - —
smaller lots, dlvd. lb.14.50 -15.20
Carotene, tech., 1,350,000 A units per gram, tins, works gram. .48 - —
in carrot oil, 5,000,000 to 8,000,000 A units per lb., dms., works, million units .18 - —
microcrystalline in oil, 400,000 A units per gram, tins, works million units. .30 - —
b-Carotene, pure, crystalline, 1,600,000 A units to 1,670,000 per gram., cns. gram. .40 - —
in vegetable oil, 400,000 A units per gram, cns. gram. .096 - —
Carvol, bots lb. 4.50 - 8.00
Cascara sagrada bark, bulk lb. .30 - .31
Casein, dom., acid precip., standard, bgs., 10,000-lb. lots or more, shipt. point lb. .27 - .30
premium, bgs., 10,000-lb. lots or more, shipt. point lb. .35 - .40
Imp., Argentine, acid-precip., grd., bgs., c.l., duty paid lb. .24½- .25
New Zealand, same basis lb. .25½- .26½
Cashewnut shell, liquid, treated, dms., c.l., Newark, N. J. lb. .22 - —
ton lots, same basis lb. .23 - —
dm. lots, same basis lb. .25 - —
Cassia, Batavia, cuttings, bls. lb. .14¾- .16¼
longstick, cracked, bls. lb. .16½- —
shortstick, cracked, bls. lb. .15½- —
Corinje, bbls. lb. .16 - .18
Castor beans, bgs., c. & f. ton.115.00 Nom.
Oil (see Oil, castor).
Pomace, bgs., c.l., works ton.40.00 Nom.
Castoreum, nat., cns lb 5.00 -30.00
syn., cns lb 9.00 - —
Catechol, CP, cryst., fib. dms., works lb. 2.17½- —
resub., dms., works lb. 4.29½- —
Catnip leaves, Southern, bls lb. .75 - —
Celery seed, French, bgs., shipt. lb. .30 - —
Indian, bgs. lb. .16 - —
Cellulose scrap (see Pyroxylin scrap).
Acetate, flake, powd., ctns., bgs., 100-lb lots or more, dlvd E lb. .35 .46
Acetate-butyrate, powd., 17% butyryl content, bgs., dlvd E. lb. .545 .553
27% butyryl content, bgs., dlvd. E lb. .593 .603
38% butyryl content, bgs., dlvd. E lb. .543 .553
50% butyryl content, bgs., dlvd E lb. .585 .593
half-second, bgs., dlvd E. lb. .543 .553
Cerium chloride, dms., dlvd. lb. .35 - —
Hydrate, 74% CeO_2, fib. dms., 100-lb. lots or more lb. 1.44 - —
77% CeO_2, fib. dms., 100-lb. lots or more lb. 1.74 - —
Oxalate, NF, bbls., bgs., works lb. 1.32 - —
Oxide, optical grade, bgs., 50-lb. lots or more, dlvd lb. 1.83 - 1.98
smaller lots, dlvd lb. 2.03 - 2.23
Chalk (see Calcium carbonate).
Chamomile flowers, Hungarian style, cs lb. .83 - —
Roman, cs lb. 1.50 - —
Charcoal, activated, NF, fib. dms., c.l., works lb. .25 - .32
5-ton lots, works lb. .26½- .32½
smaller lots, works lb 27 50
Bone (see Black, bone).
Hardwood, briquets, bgs., c.l., works ton.77.00 - —
gran., bgs., works ton.77.00 - —
bulk, c.l., works ton.72.00 - —



National Aniline Announces

First American Tonnage Production

of an interesting reactive intermediate

NATIONAL®

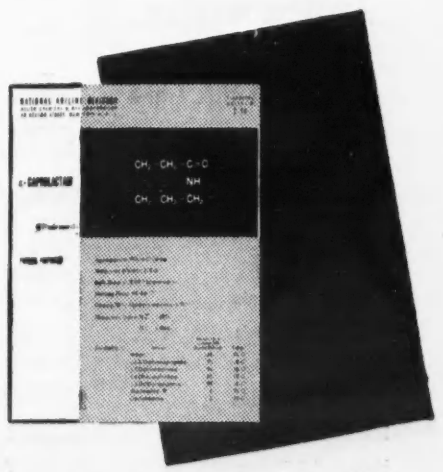
ε-CAPROLACTAM

(2-Oxohexamethylenimine)

Available for the first time in large tonnage, this high-purity ε-Caprolactam should find important uses in new organic chemical developments. Our modern Hopewell, Va. plant has ample production to supply projected requirements and our output can be further expanded to meet any foreseeable commercial need at attractive volume prices.

WRITE FOR TECHNICAL BULLETIN I-14

To assist prospective users of this unusual 6-carbon chemical, National CAPROLACTAM, we have prepared a 12-page brochure containing complete physical properties, known chemical reactions, suggested uses, and a bibliography. Samples and additional technical help are freely available to those whose work may develop new uses for National CAPROLACTAM.



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Charcoal, Pinewood—Corrosive Sublimate

Charcoal, pinewood, gran., powd., bgs., c.l., works, South ton.55.00 - —
t.c.l., works, South ton.55.00 -65.00
lump bgs., c.l., works, South.ton.51.50 - —
l.c.l., works, South ton.54.50 -69.00
bulk, c.l., works, South ton.56.00 - —
Chestnut extract, liq., 25% tannin, bbls., c.l., works lb. .04¾- —
t.c.l., works lb. .0510- —
tanks, works lb. .04 - —
powd. 60% tannin, bgs., extra, c.l., works lb. .1032- —
t.c.l., works lb. .1102- —
Chloral, tech., 94% min., dms., c.l. works lb. .23 - —
t.c.l., works lb. .24 - —
tanks, works lb. .21 - —
Hydrate USP, 40-lb. jars, 1,000-lb. lots lb. 1.00 - —
500-lb. lots lb. 1.03 - —
100-lb. lots or less lb. 1.05 - —
Chloramine T NF, bbls., works lb. .75 - 1.00
Chlordan, agricultural, dms., c.l., frt alld lb. .65 - —
t.c.l. 5,000 to 10,000-lb. lots, frt alld lb. .66 - —
clarif., dms., c.l., frt. alld lb. .75 - —
t.c.l. 5,000 to 10,000-lb. lots, frt. alld lb. .76 - —
Chlorinated paraffin, 42%, dm., c.l., frt. alld lb. .15¼- —
t.c.l., same basis lb. .16½- —
70%, dms., c.l., same basis lb. .18 - —
t.c.l., same basis lb. .19 - —
rubber, 5, 10, 20 cps., ctns., c.l., works lb. .55 - —
l.c.l., works lb. .56 - —
125, 1,000 cps. ctns., c.l., works lb. .65 - —
l.c.l., works lb. .66 - —
Chlorine, liq., cyls., c.l., works, frt. equald lb. .10¼- —
l.c.l., Metropolitan area lb. .11¾- .13
tanks, single units, works, frt. equald 100 lbs. 2.93 - —
multiple units, 5 cars, works, frt. equald 100 lbs. 3.80 - 3.83
3 cars, same basis 100 lbs. 3.80 - —
2 cars, same basis 100 lbs. 5.00 - —
1 car, same basis 100 lbs. 6.00 - —
4-Chloro-2-aminotoluene, fused, bbls. lb. 1.45 - —
m-Chloroaniline, dms., c.l., frt. equald lb. .75 - —
l.c.l., same basis lb. .80 - —
o-Chloroaniline, dms., c.l., works, frt. equald lb. .70 - —
t.c.l., same basis lb. .72 - —
p-Chloroaniline, dms., c.l., works, frt. equald lb. .75 - —
o-Chlorobenzaldehyde, dms., works. lb. 1.20 - —
p-Chlorobenzaldehyde, dms., works. lb. 2.00 - —
Chloroform, tech., dms., c.l., dlvd. E lb. .18 - —
t.c.l., same basis lb. .19 - —
tanks, same basis lb. .17 - —
USP, dms lb. .30 - —
2-Chloro-4-nitroaniline, paste, dlvd. E., 100% basis lb. .81 - —
powd., dlvd. E., 100% basis lb. .86 - —
4-Chloro-2-nitroaniline, powd., dlvd. E lb. .80 - —
o-Chlorophenol, dms., c.l., frt. equald. lb. .35½- —
l.c.l., same basis lb. .36½- —
p-Chlorophenol, dms., c.l., frt. equald. lb. .35½- —
l.c.l., same basis lb. .36½- —
Chlorophyll, oil soluble, not fixed, 4%, pails, tins, works lb. 4.25 - —
copper fixed, 6½%, tins, pails, works lb 4.25 - —
dms., pails, works lb. 3.75 - —
8%, pails, dms., works lb. 4.00 - 4.80
14%, dms., works lb. 8.90 - —
conc., dom., 50%, dms., works, 100% basis lb.42.00 - —
75%, dms., works, 100% basis lb.45.00 - —
90%-100%, dms., works, 100% basis lb.45.00 - —
imp., 60%, tins, 100% basis. lb.58.00 - —
75%, tins, 100% basis lb.58.00 - —
90%, tins, 100% basis lb.58.00 - —
Chloropicrin, coml., bots. lb. 1.50 - —
cyls. 180 lbs frt alld lb. .95 - —
100 lbs., same basis lb. .97 - —
25 lbs., same basis lb 1.22 - —
Cholesterol, USP fib. dms., 100-lb. lots lb. 6.85 - 9.00
Choline bitartrate, fib. dms., frt. adjusted lb. 1.25 - —
Chloride, fib. dms., frt. adjusted. lb. 1.25 - 1.50
Dihydrogen citrate, fib. dms., frt. adjusted lb. 1.25 - 1.50
Chromium acetate, soln., 7½%, bbls., works lb. .08½- —
cbys works lb. .10¼ —
Fluoride, bbls., works lb. .51 - .53
Green (see Green, chrome).
Oxide (see Green chromium oxide).
Trioxide NF, bots lb. .82 - .89
Yellow (see Yellow chrome).
Cinchona bark, NF, red, broken, bgs lb. .35 - .40
yellow, broken, bgs lb. .35 - .40
Cinchonidine, cryst., cns., 100-oz. lots. oz. .65 - —
Sulfate, cns., 100-oz. lots oz. .35 - —
Cinchonine, cryst., cns., 100-oz. lots. oz. .52 - .57
Sulfate, NF, cns., 100-oz. lots oz. .27½- .30½
Cinchophen, NF, heavy density, dms., frt. adjusted lb. 3.70 - 4.05
standard density, dms., same basis lb. 3.50 - 3.85
Cinchophen-sodium, dms., frt. adjusted lb. 4.50 - 4.85
Cinnamic alcohol (see Alcohol cinnamic).
Aldehyde, cns., dms. lb. 1.00 - 1.30
Cinnamon, Ceylon, No. 2, bgs. lb. .60 - .61
"0000," bgs., afloat lb. .84 - —
Citral, bots., cns. lb. 5.65 - 5.90
Citronellal, bots., dms. lb. 1.85 - 2.50
Citronellol, bots., dms. lb. 4.85 - 5.15
Civet, artif., bots. lb.13.75 -15.00
nat., bots oz. 7.50 -15.00
Clay, ball, dom., airfloated, bgs., c.l., Tenn. ton.19.50 - —
crushed, shed moisture, bulk, c.l., Tenn ton.10.00 - —
purif. bgs., c.l. Tenn ton.20.50 - —
imp., airfloated, bgs., c.l., Atl. port..long ton.42.00 -45.00
lump bulk, Atl. port..long ton.27.00 -30.20
China, dom., dry-ground, airfloat, 99% 325 mesh bgs., c.l., Georgia, works ton.10.00 - —
t.c.l. Georgia works. ton.15.50 - —
300 mesh, bgs., c.l., Georgia, works. ton.13.50 -14.50
t.c.l. ton.35.00 -36.00
imp., white, lump, bulk, c.l., ex dock, Phila., Portland, Me. gross ton.20.00 -35.00
powd., bgs., c.l., ex dock net ton.50.00 —
t.c.l., ex whse. net ton.60.00 -65.00
Clove, Madagascar, bgs. lb. .43 - .44
Zanzibar, bgs. lb. .45 - .46
CMC, crude, 96%, low or medium vis., bgs., or fib. dms., 23,000 lbs., dlvd. E., 100% basis, lb. .37 - —
less than 23,000 lbs., dlvd. E 100% basis lb. .41 - —
65%, low or medium vis., bgs., or fib. dms., c.l., dlvd. E., 100% basis lb. .37 - —
t.c.l., dlvd. E., 100% basis. lb. .41 - —
purified, high vis. (see Gum Cellulose).
standard, low or medium vis., bgs., 23,000 lbs. or over, works, frt. alld. lb. .55 - —
smaller lots, same basis lb. 57 - —

CMC prices W. of the Rockies are 2c. per lb. lower, and are on a works basis.

Coaltar, crude, resale for solns., dms., c.l., ex-whse. gal. .255 - —
t.c.l., ex-whse gal. .275 - —
tanks, ex works gal. .155 - .159
refd., resale, dms., c.l., ex-whse. gal. .2650- .32
t.c.l., ex-whse gal. .2850- .34
tanks, ex-whse gal. .1650- .1760
Cobalt acetate, 23.7%, bbls., dlvd. lb. 1.30 - —
Carbonate, 46% powd., bgs., dlvd. lb. 2.15 - —
Chloride, 24.2% Co. kgs., dlvd., lb. 1.20 - —
Hydrate, 60-61% Co. bbls., dlvd. lb. 2.72 - —
Linoleate, fused, 8½% Co., dms. lb. .75¾- —
liq., 6% Co., dms lb. .61 - —
Metal, 97-99% kgs., ex whse lb. 2.60 - —
Naphthenate, liq., 6% Co., dms., dlvd lb. .48¼- —
Nitrate, 20.1% Co. bbls., dlvd lb. 1.00 - —
Oxide, black, 72½-73½% Co., kgs. lb. 1.96 - —
70-71% Co., kgs lb. 1.90 - —
Phosphate, powd., 32.1% Co., kgs., dlvd lb. 1.69 - —
Resinate, fused, 3% Co., dms lb. .29¾- —
Sulfate, cryst. 21% Co., dms., dlvd lb. .89 - —
monohydrated, 33% Co., dms. dlvd lb. 1.40 - —
Tallate, 6% Co., dms., dlvd lb. .43¾- —
Cocaine, USP, cns., 100-oz. lots oz.17.80 - —
Hydrochloride, cns., 100-oz. lots. oz.13.75 - —
Cocillana bark, bgs. lb. .40 - .50
Cocoa, butter, bgs. lb. .54 - .59
Codeine, NF, cns., 100-oz. lots. oz.13.25 - —
Hydrochloride, cns., 100-oz. lots.oz.11.75 - —
Phosphate, USP, cns., 100-oz. lots. oz.10.25 - —
Sulfate, USP, cns., 100-oz. lots. oz.10.75 - —
Codliver oil (see Oil, codliver).
Cohosh root, black, bls. lb. .20 - .22
blue, bls. lb. .20 - .22
Colchicine, USP, bots., cns. oz.33.50 -40.00
Colchicum root, bls. lb. .45 - .55
seed, bgs. lb. .75 - 1.00
Collodion, USP, dms. lb. .32½- —
flexible, USP, dms. lb. .34 - —
Colocynth, pulp, bls. lb. .25 - .30
Colombo root, bls. lb. No prices.
Condurango bark, bales lb. .40 - .50
Copaiba balsam, cns., dms. lb. .90 - 1.20
Copper acetate, bbls., c.l., works lb. .43 - —
l.c.l., works lb. .44 - —
Carbonate, 55%, bgs., c.l., works. lb. .3625- —
l.c.l., works lb. .3775- —
Chloride, anhyd., bbls., works lb. .46½- —
cryst., bbls., works lb. .32¾- .33¼
Cyanide, tech., bbls., 20,000-lb. lots or more lb. .80½- —
1,000-lb. lots or more lb. .81½- —
smaller lots lb. .83½- —
Gluconate, cns., dms lb. 3.00 - 3.24
Hydrate, dms., c.l., frt. alld. E. Miss. lb. .55 - —
l.c.l., same basis lb. .55½- —
Metal, electrolytic, dlvd., Valley basis lb. .43 - —
Naphthenate, liq., 8% Cu, dms., frt. alld lb. .24 - —
Nitrate, tech. cryst., bbls., works lb. .33¼- —
Oleate, solid, 8% Cu, dms., works lb. .45 - —
Oxide, black, bbls., 500-lb. lots or more, works lb. .53¾- .61½
red, 97%, USN Type I, bbls., lb. .66½- .80
90%, USN Type II, bbls., 500-lb. lots or more, works lb. .57½- .64½
Oxychloride, dms., c.l., works lb. .54¾- —
l.c.l., works lb. .55¼- .65¼
Quinolinate, fib. dms lb. 4.25 - 4.50
Resinate, precip., dms., frt. alld lb. .31½- —
Sulfate, CP, gran., bbls., works. lb. .2180- —
cryst., 99%, bgs., c.l., works. 100 lbs.14.90 - —
l.c.l., same basis 100 lbs.15.40 -17.90
monohydrated, 35% dms., c.l., works. 100 lbs.24.00 - —
l.c.l., works 100 lbs.24.75 - —
tribasic, dealers, bgs., c.l., works, frt. equald 100 lbs.32.25 - —
l.c.l., same basis 100 lbs.33.25 -36.25
Undecylenate, dms lb. 2.90 3.00
Copra, Atl. Gulf ports, c.i.f. ton.160.00 - —
Pacific ports, c.i.f. ton.155.00 - —
Coriander seed, Moroccan, bgs. lb. .12 - —
Roumanian, bgs. lb. .08 - —
Yugoslavian, bgs. lb. .09 - .10
Corn sugar, tanners, chipped, paper bgs., c.l., 60,000 lbs. min. 100 lbs 7.31 - —
l.c.l. 100 lbs 7.46 - —
Syrup, 42% dms., c.l. 100 lbs 7.32 - —
l.c.l. 100 lbs 7.46 —
Corrosive sublimate (see Mercuric Chloride).

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DIMETHYLAMINE

TRIMETHYLAMINE

both aqueous & anhydrous

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BETTER THINGS FOR BETTER LIVING
. . . THROUGH CHEMISTRY

Cortisone acetate, NNR, bulk gram 3.50 3.53
Cottonseed meal, expeller, 41%, bgs., Memphis ton 60.00 Nom.
Coumarin, NF, cryst., dms. lb. 3.20 - 3.45
Cramp bark, NF, bls lb. .85 .90
Cream of tartar (see Potassium bitartrate).
Creosote carbonate, NF, bots. cbys. lb. 3.05 3.26
Coaltar, crude, tanks, works, frt. adjusted gal. .22 —
soln., 80%, tanks, works gal. .2068 —
refd., dms., c.l., works gal. .40 - .42
l.c.l., same basis gal. .50 - .53
tanks, same basis gal. .30 - .33
Wood, beechwood, cbys., dms lb. 1.60 1.65
hardwood, NF, bots., cbys lb. 1.30 1.35
pinewood, tanks, works lb. .528 —
Cresol, tech., 50% below 204°C., dry above 207 C., wide distillation range, non-ret., dms., c.l., frt equald lb. .148 - —
l.c.l., same basis lb. .151 - —
tanks, same basis lb. .135 - —
USP, non-ret., dms., c.l., same basis lb. .158 - —
l.c.l., same basis lb. .161 - —
ret dms., c.l. same basis lb. .140 - —
l.c.l., same basis lb. .145 - —
tanks same basis lb. .145 - —
m-Cresol, 95-98% dms., c.l., works. lb, .60 - —
l.c.l. works lb. .61 - —
m-p-Cresol, 5-95%, 3°C., dms., c.l., frt. equald . .158 - —
l.c.l., same basis lb. .161 - —
tanks, same basis lb. .145 - —
2-97%, 2 C., dms., c.l., frt. equald, lb. .198 - —
l.c.l., same basis lb. .201 - —
tanks, same basis lb. .185 - —
o-Cresol, m.p. over 30°C., ret. dms., c.l., frt. equald lb. .173 - —
l.c.l., same basis lb. .176 - —
tanks, same basis lb. .16 - —
29°C. ret. dms. c.l. frt. equald, lb, .16 - —
l.c.l. same basis lb. .16½ - —
tanks, same basis lb. .15 - —
25-29°C., dms., c.l., frt. equald. lb. .153 - —
l.c.l. same basis lb. .156 - —
tanks, same basis lb. .14 - —
p-Cresol, 98% dms. c.l. dlvd lb. .49 - —
l.c.l. dlvd lb. .51 - —
Methyl ether, cns lb. 1.90 - 2.50
Crotonaldehyde, 91-93%, dms., l.c.l., works lb. .24¼ - .25
Cryolite, nat., indust., bgs., c.l., works 100 lbs. 13.00 - —
l.c.l., works 100 lbs. 14.25 - —
insecticide, dealers, bgs., c.l., dlvd 100 lbs. 16.75 - —
l.c.l., dlvd 100 lbs. 17.75 - —
Cube root, powd., 5% rotenone, bgs., c.l., t.l., works lb. .26 - .27
l.c.l., works lb. .27 - .27½
Cubeb berries, XX, NF, bgs lb. .60 - .65
powd., cs lb. .75 - .80
Cumene, dms., c.l., works lb. .12 - —
l.c.l., works lb. .14 - —
tanks, works lb. .11 - —
Cumin seed, Iranian, bgs lb. .12½ - —
Turkish, bgs lb. .12½ - —
Cutch extract, 50% tannin, bgs., ex dock, duty extra lb. .08½ - —
Cyanamide, fertilizer mixing grades, 21% N, gran., bgs., Niagara Falls, Ont., contract ton 55.00 - —
pulv., 21% N, bgs., works, unit-ton 2.75 - —
indust. grade, bgs., c.l., works ton 75.00 - —
l.c.l., bgs., works ton 96.00 - —
6-16 mesh, dms. c.l., works ton 120.00 - —
l.c.l., works ton 140.00 - —
Cyclohexane, 99% tech., dms., c.l., works gal. .70 - —
l.c.l., works gal. .72 - —
tanks, works gal. .55 - —
Cyclohexanol, tech., dms., c.l., works, frt. alld., E lb. .28½ - .37¾
l.c.l. works, same basis lb. .30 - .38¼
tanks, works, same basis lb. .27 - .36¼
Cyclohexanone, tech., dms., c.l., works lb. .33½ - —
l.c.l., works lb. .35 - —
tanks, works lb. .32 - —
Cyclohexylamine, dms., c.l., works, lb. .46½ - —
l.c.l., works lb. .47½ - —
tanks, works lb. .45 - —
Cyclopropane, CP, 2-lb. cyls., works, cyl. 48.00 - —
6 oz. cyls., works cyl. 12.00 - —
USP, hospitals, cyls., 40-gal. lots, gal. .38 - —
100-gal. lots gal. .37 - —
200-gal. lots gal. .36 - —

D

2-4-D, tech, dms., c.l., works, frt. equald lb. .41½ - —
l.c.l., same basis lb. .46½ - .48½
Butyl ester, dms., c.l., works, lb. .43 - —
l.c.l., same basis lb. .48 - .50
Isopropyl ester, dms., c.l., works, lb. .43 - —
l.c.l., works lb. .48 - .50
Dandelion root, bls lb. .35 - .40
DDD, tech., flake, grd., fib. bgs., c.l., works lb. .45 - —
l.c.l., works lb. .46 - —
DDT powder, bgs., c.l., works, frt. equald lb. .27 - —
smaller lots, same basis lb. .29 - —
fib. dms., c.l., same basis lb. .28 - —
smaller lots, same basis lb. .30 - —
1-Decanol, tech., dms., c.l., dlvd. lb. .41 - —
l.c.l., dlvd. lb. .43 - —
tanks, dlvd. lb. .38½ - —
Deertongue leaves, bls lb. .45 - —
Defluorinated phosphate, feed grade, 13% P, paper bgs., c.l., t.l., works ton 53.40 - —
14½% P, paper bgs., c.l., t.l., works ton 48.00 - —
17% P, paper bgs., c.l., t.l., works ton 36.00 - —
18% P, paper bgs., c.l., t.l., works ton 69.35 - —
Degras, common, bbls lb. .10 - —
neutral, less 2% f.f.a., bbls lb. .23 - —
over 2% f.f.a., bbls lb. .22 - —
d-Desoxyephedrine hydrochloride bots lb. 25.00 - —
dl, bots. lb. 6.50 - —
Dextrin, corn, gum, paper bgs., c.l. 100 lbs. 9.15 - —
l.c.l. 100 lbs. 9.30 - —
canary, paper bgs., c.l. 100 lbs. 8.89 - —
l.c.l. 100 lbs. 9.04 - —
dark, paper bgs., c.l. 100 lbs. 8.99 - —
l.c.l. 100 lbs. 9.14 - —
white, paper bgs., c.l. 100 lbs. 8.73 - —
l.c.l. 100 lbs. 8.88 - —
Corn dextrin in cotton bgs. 25c. per 100 lbs. higher.
Potato, imported, bgs lb. .10½ - .11
Dextrose USP dms lb. .17¾ - —
Diacetone (see Alcohol diacetone).
Diacetyl, flavor grade, bots lb. 4.50 - 5.50
Di-sec-amyl phenol, dms., c.l., works lb. .30¾ - —
l.c.l., works lb. .32¼ - —
tanks, works lb. .28¾ - —
Di-tert-amyl phenol, dms., c.l., works lb. .30¾ - —
l.c.l., works lb. .32¼ - —
tanks, works lb. .28¾ - —
o-Dianisidine, fib. dms lb. 2.00 - —
Dibenzyl sebacate, dms., c.l., works, lb. .89¾ .90
l.c.l., same basis lb. .90¼ .91
tanks, same basis lb. .88 - —
p-Dibromobenzene, bgs., 500-lb. lots lb. .55 - —
Dibutyl phthalate, dms., c.l., dlvd. E lb. .32 - —
l.c.l., same basis lb. .33 - —
tanks, same basis lb. .30 - —
Sebacate, dms., c.l., works lb. .66 - —
l.c.l., works lb. .66½ .67
tanks, works, dlvd lb. .64 - .64½
Tartrate, dms., works, frt. alld lb. .64 - .71
Dibutylamine, dms., c.l., dlvd lb. .55 - —
l.c.l., same basis lb. .56 - —
tanks, same basis lb. .53 - —
Di-tert-butyl-p-cresol, dms., c.l., works lb. .91 - —
l.c.l., works lb. .95 - —
Dicapryl phthalate, dms., c.l., dlvd., lb. .30½ - .31½
l.c.l., dlvd lb. .31½ - .32½
tanks, dlvd lb. .29½ - —
Sebacate, dms., c.l., works lb. .63 - —
l.c.l., works lb. .63½ .64
tanks, works lb. .61 - —
2,3-Dichloroaniline, dms., works lb. .83 - —
o-Dichlorobenzene, dms., c.l., frt. alld. E lb. .12¼ - —
l.c.l., same basis lb. .13¼ - —
tanks, same basis lb. .10¾ - —
p-Dichlorobenzene, dms., c.l., frt. alld. E lb. .14½ - —
l.c.l., same basis lb. .17 - —
Dichlorodiphenyltrichloroethane (see DDT).
Dichloropentanes, dist., dms., c.l., works lb. .05 - —
l.c.l., works lb. .05¾ - —
tanks, works lb. .04¼ - —
Dicyclohexylamine, dms., c.l., works, lb. .51 - —
l.c.l., works lb. .51¾ - —
tanks, works lb. .49¾ - —
Dicyclohexyl phthalate, fib. dms., c.l., works, frt. alld. lb. .58¼ .59
l.c.l., same basis lb. .59¼ .60
Dieldrin, dms., frt. alld lb 1.80 - —
l.c.l., frt. alld lb. 1.85 - —
Diethanolamine, dms., c.l., dlvd. E, lb. .26½ - —
l.c.l., same basis lb. .27½ - —
tanks, same basis lb. .24½ - —
Diethyl carbonate, dms., c.l., frt. alld lb. .47 - —
l.c.l., same basis lb. .48 - —
tanks same basis lb. .45 - —
Ethanolamines, dms., c.l., dlvd. lb. .69 - —
l.c.l., dlvd lb. .70 - —
tanks, dlvd lb. .67 - —
Oxalate, dms., c.l., frt. alld lb. .42 - —
l.c.l., same basis lb. .43 - .45
tanks, same basis lb. .40 - —
Phthalate, dms., c.l., dlvd lb. .27 - —
l.c.l. dlvd. lb. .28 - —
tanks, dlvd. lb. .25 - —
Sulfate, dms., c.l., works lb. .18¾ - —
l.c.l. works lb. .19¼ - —
tanks works lb. .17 - —
Diethylamine, dms., c.l., dlvd. E lb. .50½ - —
l.c.l., same basis lb. .51½ - —
tanks, same basis lb. .48½ - —
N,N-Diethylaniline, dms., c.l., frt. alld lb. .51 - —
l.c.l., same basis lb. .52 - —
tanks, same basis lb. .50 - —

Cortisone Acetate——Diglycol Stearate

Di-2-ethylhexyl adipate (see Dioctyl adipate).
Phthalate (see Dioctyl phthalate).
Diethylene glycol, dms., c.l., dlvd E, lb. .17¼ - —
l.c.l., same basis lb. .18¼ - —
tanks, same basis lb. .15¼ - —
Boriborate, dms l.c.l. lb. .31 - —
Diethyl ether, dms., works lb. .47½ - —
l.c.l., works lb. .48 - —
Monobutyl ether, dms., c.l., dlvd. E lb. .30¼ - —
l.c.l., dlvd. E lb. .31¼ - —
tanks, dlvd. E lb. .28¼ - —
Acetate, dms., c.l., works lb. .30 - —
l.c.l. works lb. .30½ - —
tanks, dlvd. E lb. .28¼ - —
Monoethyl ether, dms., c.l., dlvd. lb. .22 - —
l.c.l., dlvd lb. .23 - —
tanks, dlvd lb. .20 - —
Acetate, dms., c.l., works lb. .26¾ - —
l.c.l. works lb. .27¼ - —
tanks, dlvd. E lb. .25¼ - —
Monomethyl ether, dms., c.l., dlvd lb. .20½ - —
l.c.l., dlvd lb. .21½ - —
tanks, dlvd lb. .18½ - —
Diethylenetriamine, dms., c.l., dlvd. E lb. .43½ - —
l.c.l., dlvd. E lb. .44½ - —
tanks, dlvd. E lb. .41½ - —
Diethylstilbestrol, USP, bots., 10-kilo lots kilo 100.00 - —
1-kilo lot kilo 110.00 - —
Digitalis leaves, USP, dom. dms., lb .90 1.10
Digitoxin, USP, bots gram 5.00 - 5.50
Diglycol laurate, dms lb. .35 - .38
Oleate, dms lb. .31 - —
Stearate, dms lb. .26 - .27

Eastman aromatic amines

highly useful intermediates and couplers

PRIMARY

Shipped as free bases, both amines are convenient starting points for the manufacture of naphthol color bases; 2,5-dimethoxy aniline being particularly useful in the synthesis of Fast Blue 2R salt. Both compounds are readily diazotized in strong hydrochloric acid to yield light sensitive salts.

2,5-DIMETHOXY ANILINE

2,5-DIETHOXY ANILINE

SECONDARY

Typical secondary amine reactions. Couples with diazo salts to yield azo dyestuffs; the benzene ring may be nitrated, sulfonated or halogenated. Normally yields amides with acids or anhydrides, but if amino group is blocked esters may be formed by reaction with the hydroxyl side chain.

O-TOLYL PROPANOLAMINE

TERTIARY

Highly reactive intermediates. May be nitrated, sulfonated, halogenated or esterified. Readily coupled with diazo salts to produce dyes and dye intermediates. Condenses with aromatic aldehydes to yield triphenyl methane derivatives. Typical tertiary amine reactions, e.g., form quaternary salts.

PHENYL ETHYL ETHANOLAMINE

M-TOLYL DIETHANOLAMINE

PHENYL DIETHANOLAMINE

these intermediates are used in the manufacture of

DYES

PHARMACEUTICALS

INSECTICIDES

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Dihexyl Sebacate—Glue, Hide

Dihexyl sebacate, dms., c.... works lb. .64 —
l.c.l., works lb. .64½ .65
tanks, works lb. .62 —
Dihydrazine sulfate, dms., works. lb. 1.10 1.25
Dihydrostreptomycin hydrochloride, bulk gram. .063 .07
Sulphate, bulk gram. .063 .07
2,2-Dihydroxy-5,5'-dichloro-diphenyl-methane, pure, dms lb 2.80 3.00
tech, dms lb. 1.04 1.14
Di-isobutyl ketone, dms., c.l., dlvd. lb. .15½ —
l.c.l., dlvd lb. .16½ —
tanks, same basis lb .13½ —
Phthalate, dms., c.l., dlvd. E lb. .31 —
l.c.l. same basis lb. .32 —
tanks, same basis lb. .29 —
Di-isobutylene, dms., c.l., dlvd. E lb. .10 —
l.c.l., dlvd. E lb. .11 —
tanks, dlvd E lb. .08 —
Di-iso-octyl phthalate, dms., c.l., dlvd lb. .32½ —
l.c.l., same basis lb. .33½ —
tanks, same basis lb. .30½ —
Sebacate, dms., c.l., works, lb. .63 —
l.c.l., works lb. .63½ .64
tanks, works lb. .61 —
Di-isopropanolamine, dms., c.l., dlvd, lb. .22¾ —
l.c.l., same basis lb. .23¾ —
tanks, same basis lb. .20¾ —
Di-isopropylamine, dms., c.l., dlvd. E. of Rockies lb. .50 —
l.c.l., same basis lb. .51 —
tanks, same basis lb 48 —
Dillseed, dewhiskered, bgs. lb. .10 —
nat., bgs. lb. .09 —
Dimethyl antranilate, cns. lb. 5.25 5.75
Chloroacetal, dms., c.l., works lb. .45 —
l.c.l., works lb. .50 —
tanks, works lb. 40 —
Ethanolamines, anhyd., dms., c.l., dlvd lb. 1.43 —
l.c.l., dlvd lb. 1.45 —
tanks, dlvd lb. 1.40 —
Dimethylethanolamines, 70%, dms., c.l., dlvd., 100% basis lb. 1.02 —
l.c.l., dlvd., 100% basis lb. 1.03 —
tanks, dlvd., 100% basis lb. 1.00 —
Hydroquinone, dms. lb. 1.70 2.75
Phthalate, dms., c.l., works lb. .29½ —
l.c.l., works lb. .30½ —
tanks, dlvd lb. .27½ —
Sebacate, dms., c.l., works lb. 1.27 —
l.c.l., works lb. 1.28 —
tanks, works lb. 1.25 —
Sulfate, 55-gal., ret. dms., c.l. works lb. .15 —
l.c.l. works lb .16 —
10-gal. ret. dms., l.c.l., works, lb. .16½ —
Dimethylamine, 25% soln., dms., c.l., frt equald lb. .42 —
l.c.l., frt. equald lb. .42½ —
tanks, frt. equald lb. .33 —
40% soln., dms., c.l., frt. equald lb. .39 —
l.c.l., frt. equald lb. .39½ —
tanks, frt. equald lb. .33 —
N,N-Dimethylaniline, dms., c.l., frt. alld lb. .29½ —
l.c.l., frt. alld lb. .30½ —
tanks, frt. alld lb. .28½ —
N,N-Dimethylformamide dms., works. lb. .34 .39
tanks works lb. .33 —
2,4-Dinitroaniline, dms., frt equald lb. .57 —
m-Dinitrobenzene, 85°C., dms lb. .22 —
89°C., dms. lb. .24 —
2,4-Dinitrochlorobenzene, dms., c.l., frt. alld. E lb. .15¼ —
l.c.l., frt. alld E lb. .15¾ —
tanks, frt alld., E lb. .15 —
2,4-Dinitrophenol, bbls. lb. .37 —
2,4-Dinitrotoluene, oily, dms. lb. .10 —
refd., 63 C., dms lb. .21 —
Dioctyl adipate, dms., c.l., works. lb. .44½ —
l.c.l. works lb. .45½ —
tanks, works lb. .42½ —
Phthalate, dms., c.l., frt. alld lb. .32½ —
l.c.l., frt. alld lb. .33½ —
tanks, frt. alld lb. .30½ —
Sebacate, dms., c.l., works, lb. .60 —
l.c.l., works lb. .60½ .61
tanks, works, dlvd lb. .58 .58½
Di-o-tolyguanidine, dms., ton lots, dlvd lb. .60 —
smaller lots, dlvd lb. .61 —
1,4-Dioxane, dms., c.l., works lb. .28¾ —
l.c.l. same basis lb. .29¼ —
tanks, same basis lb. .27 —
Dip oil (see Tar acid oil).
Dipentaerythritol bgs., l.c.l., works. .35 —
Dipentene, dest-dist., dms., c.l., works gal. .47 —
l.c.l., works gal. .52 —
ex-whse gal. .64 —
steam-dist., dms., c.l. works, South. gal. .59 —
dlvd. N. Y gal. .67 —
tanks, works, South gal. .45 —
Diphenyl, bbls., c.l., works lb. .15 —
l.c.l., works lb. .16 —
Diphenyl in bags ¼c. lower.
Oxide, perfume grade, cns lb. .54 .61
Phthalate, dms., c.l., works lb. .51¾ —
l.c.l., works lb. .53¾ —
Diphenylguanidine, bgs., dms., ton lots lb. .50 —
smaller lots lb. .51 .52
Diphenylhydantoin-sodium USP, dms lb. 5.30 5.60
Dipropylene glycol, dms., c.l., frt. alld lb. .17¼ —
l.c.l., same basis lb. .18¼ —
tanks, same basis lb. .15¼ —
Monomethyl ether, dms., c.l., dlvd. E lb. .20 —
l.c.l., same basis lb. .21 —
tanks, same basis lb. .18½ —
Divi-divi, 45% tannin, bgs., bls., c.l., U.S. ports, exdock ton 70.00 72.00
Divinylbenzene, 20-25%, dms., c.l., works lb. .20 —
l.c.l., works lb. .21 —
tanks, works lb. .19 —
40-50%, dms., c.l., works, 100% basis lb. 1.00 —
l.c.l., works, 100% basis lb. 1.15 —
Dodecylbenzene, dms., c.l., frt. equald lb. .14 —
l.c.l., same basis lb. .15 —
tanks, same basis lb. .12 —
Dyes, coaltar, certified colors for food, drugs and cosmetics, 5-lb and 1-lb. lots, dlvd:—
Blue, FD & C, No. 1, cns lb.17.00 -17.60
No. 2, cns lb.17.00 -17.60
Green, FD & C, No. 1, cns lb.17.00 -17.60
No. 2, cns lb.22.20 -22.85
No. 3 cns lb.35.25 -35.90
Orange, FD & C, No. 1, cns lb. 3.65 - 3.75
No. 2, cns lb. 4.65 - 4.75
Red, FD & C, No. 1, cns lb. 7.55 - 7.85
No. 2, cns lb. 4.00 - 4.10
No. 3, cns lb.22.20 -22.85
No. 4, cns lb. 7.20 - 7.50
No. 32, cns lb. 5.30 - 5.40
Violet, FD & C, No. 1, cns lb.17.00 -17.60
Yellow, FD & C, No. 1, cns lb.10.50 -11.05
No. 3, cns lb. 3.30 - 3.40
No. 4, cns lb. 3.30 - 3.40
No. 5, cns lb. 4.00 - 4.10
No. 6, cns lb. 4.00 - 4.10

Dyes, coaltar, certified colors for drugs and cosmetics, 1-lb. lots, works, 25-50 lb. lots, dlvd:—
Black, D&C, No. 1, cns lb.10.95 - —
Brown, D&C, No. 1, cns lb.16.10 - —
Green, D&C, No. 5, cns lb.16.10 - —
No. 6, cns lb.16.10 - —
No. 7, cns lb.14.80 - —
Orange, D&C, No. 3, cns lb.10.95 - —
No. 4, cns lb.20.05 - —
No. 5, cns lb. 5.70 - —
No. 10, cns lb.20.70 - —
Red, D&C, No. 8, cns lb. 2.85 - —
No. 9, cns lb. 2.85 - —
No. 10, cns lb. 2.30 - —
No. 11, cns lb. 1.85 - —
No. 12, cns lb. 2.65 - —
No. 17, cns lb.10.95 - —
No. 18, cns lb.24.00 - —
No. 19, cns lb.15.45 - —
No. 21, cns lb. 3.60 - —
No. 22, cns lb.10.95 - —
No. 28, cns lb.24.65 - —
No. 33, cns lb.17.45 - —
Violet, D&C, No. 2, cns lb.16.10 - —
Yellow, D&C, No. 7, cns lb.10.95 - —
No. 10, cns lb.13.50 - —
No 11, cns lb.13.50 - —

Dyes, coaltar, certified, colors for drugs and cosmetics, external use, 1-lb. lots, works, 25-50 lb. lots dlvd:—
Blue, Ext., D&C, No. 1, cns lb.16.10 - —
Green, Ext., D&C, No. 1, cns lb.16.10 - —
Red, Ext., D&C, No. 1, cns lb.13.50 - —
Yellow, Ext., D&C, No. 1, cns lb.12.95 - —

Dyes, coaltar, for general use in cloth dyeing (numbers are those of the Colour Index scale or prototype), contract, dlvd. No
20 Chrysoidine Y, dustless lb. .81 - —
27 Fast light orange 2G lb. .99 - —
31 Phloxine 2G lb. .81 - —
36 Yellow 2G lb. .91 - —
40 Orange R extra, conc lb. 1.17 - —
57 Fuchsine 6B lb. 1.19 - —
79 Scarlet 2R lb. .89 - —
151 Orange AD lb. .61 - —
161 Orange RR lb. .73 - —
176 Fast red A lb. 1.07 - —
179 Rubine XX, conc lb. 1.14 - —
180 Blue F4B, conc lb. 1.01 - —
185 Brilliant scarlet 3RN, conc. lb. .93 - —
202 Chrome blue black R, conc. lb. .83 - —
203 Chrome black T lb. .86 - —
208 Fast blue SR lb. 1.00 - —
216 Chrome red B lb. .84 - —
234 Brown Y lb. .98 - —
246 Blue black, extra, conc lb. 1.05 - —
275 Milling red 3R, conc lb. 2.03 - —
299 Navy blue 3R, conc lb. 1.31 - —
299 Black F, conc lb. 1.69 - —
304 Neutral black 2B, conc. lb. 2.21 - —
326 Fast scarlet 4BNC lb. 1.64 - —
332 Bismark brown RX, conc. lb. 1.05 - —
365 Brilliant yellow, conc lb. 2.83 - —
382 Scarlet B lb. 2.00 - —
401 Diazo black BHD lb. 72 - —
406 Blue 2B, extra conc lb. 1.18 - —
419 Red FC, conc lb. 1.12 - —
420 Brown M lb. 1.03 - —
438 Red 4BX, conc lb. 1.30 - —
518 Diamine sky blue FF, extra, conc lb. 1.50 - —
561 Brown B lb. 2.23 - —
581 Black EB, 200% lb. 1.03 - —
593 Green BY, conc lb. .79 - —
596 Yellow Brown K, extra lb. .98 - —
620 Yellow 2G lb. 1.79 - —
640 Yellow XX lb. 1.77 - —
655 Yellow OX lb. 2.04 - —
657 Green V lb. 2.10 - —
662 Brilliant green G lb. 2.79 - —
667 Brilliant milling green 6B, conc lb. 3.68 - —
671 Blue EG lb. 1.70 - —
681 Crystal violet powder lb. 2.15 - —
698 Violet 4BXN lb. 1.74 - —
720 Brilliant blue BBG lb. 1.88 - —
729 Blue B, conc lb. 2.79 - —
749 Red BX lb. 4.33 - —
814 Yellow NN, conc lb. 3.11 - —
841 Safranine GF, extra, conc. lb. 3.17 - —
865 Nigrosine WSJ lb. .79 - —
922 Blue GXX lb. 1.71 - —
978 Black GXCF, conc lb. .32 - —
1034 Alizarine red SC lb. 2.59 - —
1054 Alizarine blue SAPX lb. 2.91 - —
1078 Alizarine green CG, extra. lb. 2.72 - —
1085 Alizarine blue, black, B lb. 2.33 - —
1090 Golden orange GFD, single paste lb. 1.99 - —
1099 Dark blue BO, single paste. lb. 1.75 - —
1101 Jade green N, double paste. lb. 1.98 - —
1106 Blue RS, double paste lb. 3.26 - —
1217 Orange RD, single paste lb. 1.65 - —
1113 Blue BLFD, double paste lb. 2.48 - —
1150 Olive R, single paste lb. 1.10 - —
1151 Brown R, single paste lb. 1.76 - —
1171 Indigo synthetic, 20% paste. lb. .31 - —
p-4 Brown PG lb. 2.30 - —
p-14 Brown EB lb. 1.66 - —
p-24 Gray L lb. 1.60 - —
p-80 Diazo brilliant scarlet ROAD lb. 2.79 - —
p-202 Diazo black VJ, conc lb. 1.91 - —
p-244 Brilliant scarlet BN lb. 1.31 - —
p-313 Naphthol SWF lb. 2.42 - —

Dyes, coaltar, for stains, oil-soluble, 100-lb. dms., sellers' works
Black blue No. 550 lb. .81 - —
Jet No 551 lb. .89 - —
Brown R, conc lb. 1.72 - —
Orange R, brilliant lb. .90 - —
Red 4B, conc lb. 1.37 - —
Yellow C lb. 1.18 - —
FN, conc lb. 1.22 - —

Dyes, coaltar, for stains, spirit-soluble, 100-lb. dms., sellers' works:—
Auramine O lb. 1.85 - —
Black, basic blue lb. 1.21 - —
Jet lb. 1.21 - —
Blue, methylene, 2B, conc lb. 1.71 - —
Brown Bismarck R, conc lb. .86 - —
Chrysoidine, R, extra lb. .60 - —
Y, extra lb. .64 - —
Fuchsine, conc lb. 3.08 - —
Green, malachite, conc lb. 2.10 - —
Rhodamine, B lb. 4.33 - —
Safranine, Y, conc lb. 2.90 - —
Violet, methyl, B lb. 1.10 - —

Dyes, coaltar, for stains, water-soluble, 100-lb. dms., sellers' works:—
Azo rubine R, extra, conc lb. 1.04 - —
Black, acid blue, B, extra lb. .86 - —
Fast light, 3 G, extra lb. 2.04 - —
Methanil, conc lb. .91 - —
Orange acid Y, conc lb. .47 - —
Scarlet croceine, MOO lb. 1.45 - —
Yellow, azo, conc lb. .90 - —
Oil-soluble, spirit-soluble, water-soluble in kegs, 3c. higher; tins, 10c. higher.

E

Echinacea root, bls lb 1.10 - —
Egg albumin (see Albumin).
Yolk, dried, dom., bbls lb. 1.09 - 1.13
tanners, bbls. lb. .06 - .06½
Elm bark, grinding, bls lb. .30 - .32
powd., bbls., bxs lb. .45 - —
select, bundles lb. .75 - —
Emetine hydrochloride, USP, bots. oz.42.50 -44.00
Endrin, tech., dms., dlvd., 100% basis lb. 3.75 - —
Ephedrine, syn., USP, anhyd., bots., 100-oz. lots oz. .98 - 1.00
hydrous, bots., 100-oz. lots oz. .92 - —
Hydrochloride, tins, 100-oz. lots. oz. .75 - —
Sulfate, cryst., tins, 100-oz. lots. oz. .72 - —
powd., tins, 100-oz. lots oz. .73 - —
Epichlorohydrin, dms., c.l., dlvd lb. .35 - —
l.c.l., dlvd lb. .36 - —
tanks, dlvd lb. .33 - —
Epinephrine, syn., USP, bots., 100-gram lots gram. .45 - .55
Epsom salt (see Magnesium sulfate).
Ergosterol, unirradiated, cryst kilo.150.00 - —
Ergot, NF, dms., tin-lined lb. 3.00 - —
Eserine salicylate, bots oz.84.00 - —
Sulfate, bots oz.84.00 - —
Ether (see specific product)
Ethyl acetate, nat. ferment., 85-88%, dms., c.l., frt. alld lb. .13 - —
l.c.l., frt. alld lb. .14 - —
tanks, frt. alld lb. .11 - —
95-98%, dms., c.l., frt. alld, lb. .13¼ —
l.c.l., frt. alld lb. .14¼ —
tanks, frt. alld lb. .11¼ —
99%, dms., c.l., frt. alld lb. .13½ —
l.c.l., frt. alld lb. .14½ —
tanks, frt. alld lb. .11½ —
syn., 85-88%, dms., c.l., dlvd lb. .13 —
l.c.l., dlvd lb. .14 —
tanks, dlvd lb. .11 —
95-98%, dms., c.l., dlvd lb. .13¼ —
l.c.l., dlvd. lb. .14¼ —
tanks, dlvd. lb. .11¼ —
99%, dms., c.l., dlvd lb. .13½ —
l.c.l., dlvd lb. .14½ —
tanks, dlvd. lb. .11½ —
Acetoacetate, dms., c.l., dlvd lb. .58 —
l.c.l. dlvd lb. .59 —
tanks, dlvd lb. .56 —
Acrylate, dms., c.l., t.l., dlvd lb. .40½ —
t.l.l., dlvd lb. .41½ —
tanks, dlvd lb. .38¾ —
Aminobenzoate, USP (see Benzocaine)
Bromide, tech., 98%, dms., c.l., frt. alld. E lb. .41 - .43
l.c.l., frt. alld. E lb. .43 - .45
Butyrate, works lb .80 - 1.02
Carbamate (see Urethane)
Cellulose vis. 7 cps., bgs. 5,000-lb. lots or more, works lb. .70 - —
smaller lots, works lb. .72 - .80
vis. 10, 20, 50, 100, 150 cps., ogs., 2,000-lb. lots or more, works lb. .65 - .70
smaller lots, works lb. .67 - .81
Chloride, tech., cyl., works lb. .20 - .22
dms., works lb. .18 - .20
tanks, works lb. .10 —
Butyl ketone, dms., c.l., works lb. .35½ —
l.c.l., works lb. .36 —
tanks, works lb. .34 —
Cinnamate, cns. lb. 2.71 3.45
Ethanolamines, mixed, dms., c.l., frt. alld. E. Miss lb. .42½ —
l.c.l., same basis lb. .43½ —
tanks, same basis lb. .40½ —
indust., dms., c.l., dlvd. E lb. .12 —
l.c.l., dlvd. E lb. .13 —
tanks, dlvd E lb. .10 —
Ether, absolute, ACS, dms lb. .27 —
anesthesia, USP, hospitals, 1-lb. cns lb. .89 —
½-lb. cns lb. .37 —
¼-lb. cns lb. 1.05 —
indust., c.l., dlvd. E lb. .12 —
l.c.l., dlvd. E. lb. .13 —
tanks, dlvd. E. lb. .10 —
Gallate, dms., 100 to 2,000-lb. lots. lb. 3.90 - 4.40
Iodide, cbys., works lb. 3.30 - —
Methacrylate, dms., c.l., and less than truckload, works, frt. equald, lb. .51½ .52
Morphine hydrochloride, USP, bots oz.11.85 - —
Nitrite (see Nitrous ether).
Oenanthate, dms. lb. 1.00 - 1.50
Oleate, dms., l.c.l., works lb. No prices.
Oxalate (see Diethyl oxalate).
Silicate dist. (see Tetraethylorthosilicate).
40% available SiO_2, dms., c.l., dlvd lb. .49 - —
l.c.l., dlvd lb. .50 - —
tanks, dlvd lb. .47 - —
N-Ethyl-a-naphthylamine, dms., works, lb. 1.02 - —
N-Ethyl-o-toluidine, bbls lb. .88 - —
Ethylamine (see Mono, Di- or Tri-)
N-Ethylaniline, dms., c.l., frt. alld. lb. .51 - —
l.c.l., frt. alld lb. .52 - —
tanks, frt. alld lb. .50 - —
Ethylbenzene, 99%, dms., c.l. lb. .19½ .20¼
l.c.l. lb. .20½ .21¼
tanks lb. .18½ —
Ethylene dichloride, dms., c.l., dlvd lb. .10¼ —
l.c.l., same basis lb. .12¼ —
tanks, same basis lb. .09 —
Ethylene dichloride prices W. of Rockies 1c per lb higher.
Glycol, indust., dms., c.l., dlvd. E. lb. .15½ —
l.c.l., same basis lb. .16½ —
tanks, same basis lb. .13½ —
Monobutyl ether, dms., c.l., dlvd. E lb. .21½ —
l.c.l., dlvd. E lb. .22½ —
tanks, dlvd. E lb. .19½ —
Monoethyl ether, dms., c.l., dlvd. E lb. .20½ —
l.c.l., dlvd. E lb. .21½ —
tanks, dlvd. E lb. .18½ —
Acetate, dms., c.l., dlvd. E lb. .18½ —
l.c.l., dlvd. E lb. .19½ —
tanks, dlvd. E lb. .16½ —
Monomethyl ether dms., c.l., dlvd. E lb. .20½ —
l.c.l., dlvd. E lb. .21½ —
tanks, dlvd. E lb. .18½ —
Acetate, dms., c.l., dlvd. E lb. .28¾ —
l.c.l., dlvd. E lb. .29¼ —
tanks, dlvd. E lb. .27 —
Monostearate, triple pressed, dms lb. .34 —
Oxide, dms., c.l., dlvd. E lb. .21½ —
l.c.l., dlvd. E lb. .24½ —
tanks, dlvd. E lb. .15½ —
Trichloride (see Trichloroethane).
Ethylenediamine 85-88% dms., c.l., dlvd. E., 100% basis lb. .46 —
l.c.l., dlvd. E., 100% basis lb. .47 —
tanks, dlvd. E., 100% basis lb. .44 —
Ethylvanillin, cns., 25-lb. lots lb. 6.75 - 7.30
smaller lots lb. 7.35 - 7.40
Eucalyptol, USP, cns., dms. lb. 1.40 - 1.50
Eugenol, USP, bots. lb. 2.20 - 3.25
Euphorbia herb, bls lb. .15 - .17

F

Feldspar, 140-200 mesh, bulk, c.l., works ton 15.50 - —
Feldspar in bags $3 per ton higher
Fennel seed, Argentine, bgs lb. .17 - —
Czech, medium, bgs. lb. .11 - —
Indian, light, bgs lb. .12 - .12½
Roumanian, bgs. lb. .12 - —
Fenugreek seed, Indian, bgs. lb. .09 - —
Moroccan, bgs. lb. .09 - —
Ferric acetate, liquor, 28°, bbls., c.l., works lb. .09 - —
l.c.l., works lb. .09¾ - —
soln., USP IX, cbys. lb. .16 - —
djns. lb. .17 - —
Cacodylate, NF, bots lb.13.00 -14.00
Chloride, anhyd., tech., dms., c.l., works 1000 lbs. 7.00 - —
l.c.l., works 100 lbs. 7.85 - —
indust., cryst., bbls., c.l., works. 100 lbs. 4.75 - 5.25
l.c.l., works 100 lbs. 5.75 - 6.25
42° Be, photo grade, cbys., c.l., works 100 lbs. 7.25 - 8.25
sewage grade, tanks, frt. equald, 100% basis, 100 lbs. 3.50 - —
USP, cryst., dms., works lb. .07½ .09
Citrate, gran., dms. lb. .86 - —
Hydrophosphite, NF, dms lb. 3.45 - —
Naphthenate, liq., 6% Fe., dms., frt. alld lb. .25¾ —
Oxalate, gran., dms. lb. .85 - .87
Phosphate, NF, soluble, gran., pearls, cs lb. .64 .65
Pyrophosphate, NF VII, soluble, gran., pearls, dms lb. .78 - .81
Resinate, 6¾% Fe, dms., frt. alld lb. .29½ —
Stearate, dms., c.l., frt. alld lb. .37 —
l.c.l. frt. alld lb. .38 .42
Sulfate, partially hydrated, bgs., c.l., works ton 31.75 -32.75
l.c.l., works ton 34.75 -40.75
lb. .37 —
Ferric-ammonium citrate, brown, NF, gran., dms lb. .56 - .59
green, USP XII, gran., dms lb. .56 - .59
Oxalate, fine gran., dms lb. .25½ - .28½
Ferric-potassium oxalate, fine gran., dms lb. .30½ - .33½
Ferric-sodium oxalate, fine gran., dms lb. .25½ - .28½
Ferrous gluconate, NF, dms lb. .88 - —
Sulfate, gran., bgs., c.l., works, ton 34.50 - —
l.c.l., dlvd. Metropolitan area 100 lbs 3.35 - 4.25
bbls, c.l., works ton 40.00 - —
bulk, c.l., works ton 27.00 - —
USP cryst., bbls., dms lb 09½ - .10
Fir balsam, Canada, cns gal. 32.00 - —
Oregon, bbls gal. 4.00 - —
Fishliver oil (see Oil fishliver).
Fishmeal, dom., menhaden, 60% protein grd., bgs., Chesapeake Bay area ton.140.00 Nom.
Fishscrap, menhaden dried, 60% protein, bgs., Balto area ton.136.00 Nom.
Fleaseed (see Psyllium seed)
Formaldehyde, NF, 37%, (inhibited), methanol, Zone 1, dms., c.l., dlvd lb. .0675 —
l.c.l., works lb. .072 - .0725
tanks, dlvd lb. .04 —
Zone 2, 12-15% methanol, dms., c.l., dlvd lb. .071 —
tanks, dlvd lb. .043 —
Methanol-free (uninhibited), Zone 1, tanks, dlvd lb. .0375 —
Zone 2, tanks, dlvd lb. .04 —
Fringetree bark, bls lb. .60 - .61
Fuller's earth, bgs., c.l., Ill. mines. ton.19.00 - —
powd., insecticide grade, dried, bgs., c.l., Ga. or Fla. mines ton.17.50 - —
calcined, bgs., c.l., same basis ton.20.00 -21.75
oil-bleaching, grade, 100-mesh, bgs., c.l., same basis ton.16.50 -17.00
200-mesh, bgs., c.l., same basis ton.17.50 -18.00
spent, bgs., c.l., shipt. point ton. 4.50 - 5.00
Furfural, dms., c.l., works lb. .13 —
l.c.l., works lb. .14 —
tanks, dlvd. E lb. .12 —
dlvd. W lb. .13 —
Fusel oil, refd., dms., c.l., dlvd lb. .22 —
l.c.l., dlvd. lb. .23 —
tanks, dlvd. lb. .20 —
Fustic extract, cryst., No. 1, bbls., l.c.l lb. .47½ —
No. 2, bbls., c.l. lb. .45½ —
No 3, bbls c.l. lb. .43½ —
liq., No. 1, bbls., l.c.l. lb. .22½ —
No. 2, bbls c.l. lb. .21½ —
No. 3, bbls. l.c.l. lb. .19 —
solid, No. 1, bxs., l.c.l. lb. .45 —

G

G salt, bbls., frt. alld, 100% basis lb. .73 - —
Gammapicoline (see g-Picoline)
Gelatin, edible, pure (pork skin), 75 Bloom test, bbl., c.l. lb. .53 - —
150 Bloom test, bbl., c.l. lb. .64 - —
200 Bloom test, bbl., c.l. lb. .71 - —
225 Bloom test, bbl., c.l. lb. .74 - —
275 Bloom test, bbl., c.l. lb. .81 - —
Gelsemium root, bls lb. .23 - .24
Gentian root, bls lb. .17 - .20
grd., bbls., bxs lb. .22 - .23
powd. bbls., bxs lb. .23 - .24
Geraniol, extra, cns., dms. lb. 4.50 - 4.80
standard, cns., dms. lb. 4.20 - —
Geranyl acetate, cns lb. 3.90 - —
Ginger oleoresin, NF, from African root, bots lb. 4.00 - 7.75
from Jamaican root, bots lb. 6.00 -10.25
Root, African, bls lb. .37 - —
Cochin, bgs. lb. .36 - —
Jamaican, No. 2, bgs lb. .49 - .50
No. 3, bgs lb. .48 - .49
Nigerian, split, bgs. lb. .35 - —
Glauber's salt, anhyd. (see Sodium sulfate).
Glue, bone, extracted, 86 jellygrams, bgs., c.l., dlvd lb. .15 —
104 jellygrams, same basis lb. .17 —
131 jellygrams, same basis lb. .18 —
164 jellygrams, same basis lb. .20½ —
191 jellygrams, same basis lb. .21 —
222 jellygrams, same basis lb. .22 —
packers' 40 jellygrams, bgs., c.l., dlvd lb. .14 —
65 jellygrams, same basis lb. .14½ —
86 jellygrams, same basis lb. .15 —
115 jellygrams, same basis lb. .15½ —
135 jellygrams, same basis lb. .18½ —
164 jellygrams, same basis lb. .19½ —
renderers' 115 jellygrams, bgs., c.l., dlvd lb. .13 —
Bone glue, l.c.l., prices 1c. higher.
Hide, 70-94 jellygrams, bgs., c.l., dlvd lb. .15 —
95-121, bgs., c.l., dlvd lb. .16 —
122-149, bgs., c.l., dlvd lb. .18½ —
150-177, bgs., c.l., dlvd lb. .21 —
178-206, bgs., c.l., dlvd lb. .23½ —
178-206 bgs., c.l., dlvd lb. .23½ —
207-236, bgs., c.l., dlvd lb. .26 —
237-266, bgs., c.l., dlvd lb. .28 —
267-298, bgs., c.l., dlvd lb. .30 —
299-330, bgs., c.l., dlvd lb. .32 —
331-362, bgs., c.l., dlvd lb. .34 —
363-394, bgs., c.l., dlvd lb. .36 —
395-427, bgs., c.l., dlvd lb. .38 —
428-460, bgs., c.l., dlvd lb. .39 —
461-494, bgs., c.l., dlvd lb. 40 —
495-529, bgs., c.l., dlvd lb. .41 —
Hide glue l.c.l. prices 1c. higher.

Use Mallinckrodt

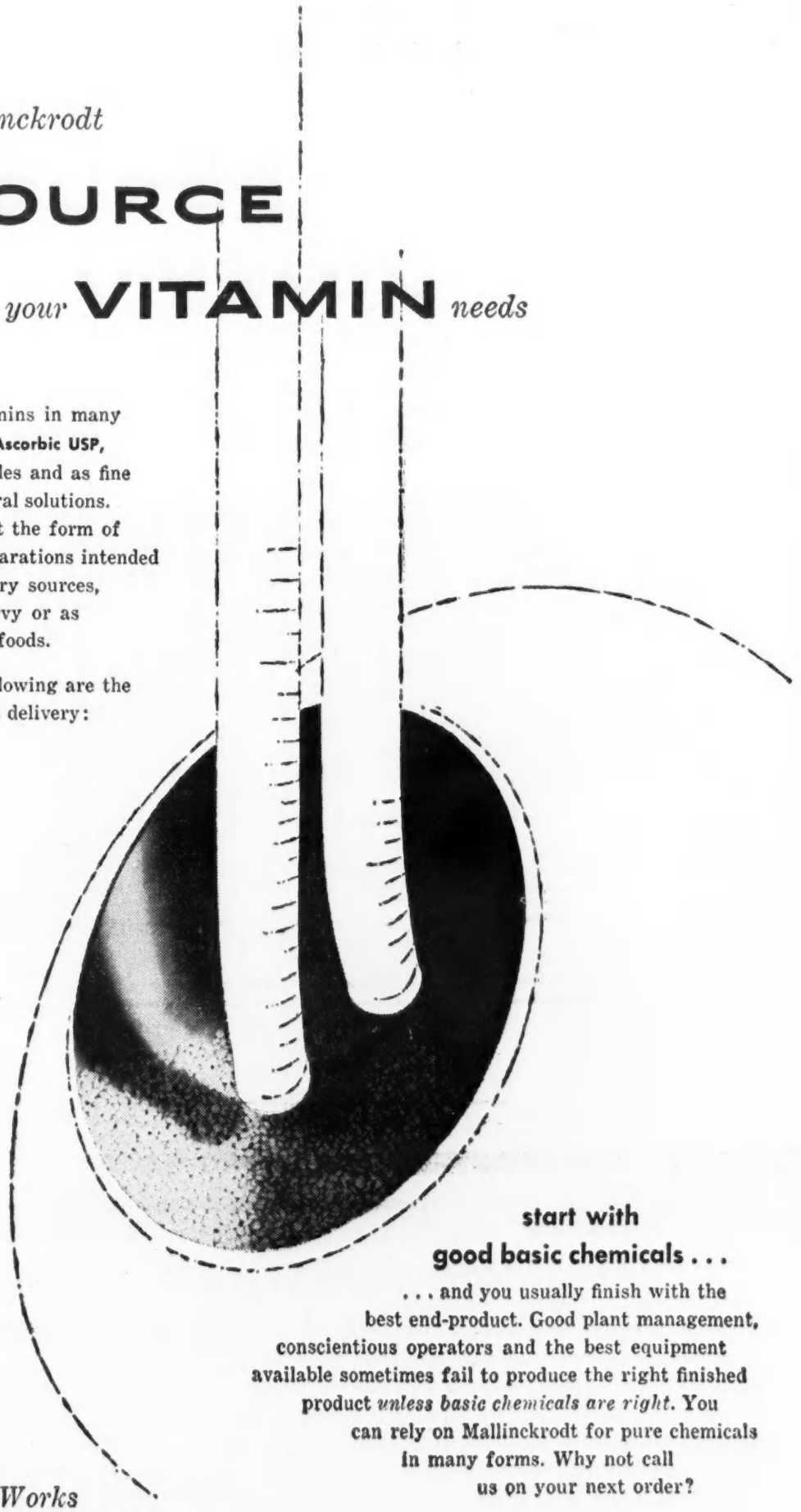
as the **SOURCE**

for your **VITAMIN** *needs*

Mallinckrodt supplies a large variety of vitamins in many forms for human and veterinary use. **Acid Ascorbic USP,** for example, is supplied as a powder, as granules and as fine granules. There is a special grade for parenteral solutions. You can count on obtaining from Mallinckrodt the form of **Acid Ascorbic USP** you need, whether you use it in preparations intended for supplementing human and animal dietary sources, for the treatment and prevention of scurvy or as an anti-oxidant in canned and frozen foods.

When you need vitamins, call Mallinckrodt. Following are the Mallinckrodt vitamins available for prompt delivery:

Thiamine Hydrochloride USP
Thiamine Hydrochloride USP Special (for Parenteral Solutions)
Thiamine Mononitrate USP
Acid Ascorbic USP Powder
Acid Ascorbic USP Granular
Acid Ascorbic USP Fine Granular
Acid Ascorbic USP Special (for Parenteral Solutions)
Pyridoxine Hydrochloride
Niacin USP
Niacinamide USP
Riboflavin USP
Vitamin B_{12} Solids (for Oral Preparations)
Vitamin B_{12} Solids – Soluble (for Oral Preparations)
Vitamin B_{12} Crystalline, 0.1% Trituration of, with Calcium Phosphate Dibasic
Vitamin B_{12} Crystalline, 0.1% Trituration of, with Mannitol
Vitamin B_{12} USP Crystalline
Calcium Pantothenate Dextrorotatory



start with good basic chemicals . . .

. . . and you usually finish with the best end-product. Good plant management, conscientious operators and the best equipment available sometimes fail to produce the right finished product *unless basic chemicals are right.* You can rely on Mallinckrodt for pure chemicals in many forms. Why not call us on your next order?

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Mallinckrodt® Since 1867

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Mallinckrodt Street, St. Louis 7, Mo. • 72 Gold St., New York 8, N. Y.

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Glycerine—Iodine

Glycerine, nat., crude, saponification, 88%, to refineries, tanks, lb. .22 Nom.
soaplye, 80%, tanks lb. .20 Nom.
refd., BP, 98%, dms., c.l., dlvd, lb. .30½ - —
l.c.l., dlvd lb. .31 - —
tanks, dlvd lb. .30 - —
dynamite, dms., c.l., dlvd lb. .30½ - —
l.c.l., dlvd lb. .31 - —
tanks, dlvd lb. .30 - —
high gravity, dms., c.l., dlvd lb. .30½ - —
l.c.l., dlvd lb. .31 - —
tanks, dlvd lb. .30 - —
USP, CP, 95%, dms., c.l., dlvd, lb. .29½ - —
l.c.l., dlvd lb. .30 - —
tanks, dlvd lb. .29 - —
yellow, distilled, dms., c.l., dlvd lb. .30 - —
l.c.l., dlvd lb. .30½ - —
syn., dms., c.l., dlvd lb. .30½ - —
l.c.l., dlvd lb. .31 - —
tanks, dlvd lb. .30 - —
Glycine (see Acid aminoacetic).
Glycerol (see Glycerine).
Glyoxal, 30%, dms., c.l., works lb. .18½ - —
l.c.l., works lb. .19 - —
tanks, works lb. .18 - —
Golden seal root, NF, tested, bls. lb 2.25 - 2.50
powd., bxs lb. 2.75 - 3.25
Graphite, amorph., powd., bgs., fib. dms., ex whse lb. .06 - .09½
crystalline, 88-90%, powd., bgs., fib. dms., ex whse lb. .19 - .21½
90-92%, powd., bgs., fib. dms., ex whse lb. .21 - .24½
Graphite, crystalline, 95-97%, powd., bgs., fib. dms., ex whse. lb. .29 - .31½
flake, No. 1, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
No. 2, 90-95%, bgs., fib. dms., ex whse lb. .29 - .31
Grease, white, choice, all hog, tanks, dlvd lb. .08¾ - —
not all hog, tanks, dlvd lb. .08½ - —
yellow, tanks, dlvd lb. .07¼ - .07⅝
Green, brilliant, thioflavin, toner, molybdated, PMA, kgs., works lb. 5.10 - —
tungstated, PTMA, kgs., works. lb. 6.20 - —
Chrome, CP, dark, light, medium, blue content 1 to 15%, bbls., dlvd. N. of Tenn. and N. C., E. of Miss., including St. Paul, Minn., Davenport, Rock Island, St. Louis lb. .38 - —
16-30%, bbls., same basis lb. .39 - —
31-45%, bbls., same basis. lb. .40 - —
45-49%, bbls., same basis lb. .43 - —
50%, bbls. same basis lb. .48 - —
reduced color, 25%, bbls., same basis lb. .19 - —

Chrome green prices are ½c. higher, dlvd., at the following points, except as noted:—Ala., Fla., Ga., La. (Shreveport 1½c.), Miss., N. C., S. C., Tenn., Texas (Dallas, Ft. Worth, 1¼c.; El Paso, 2c.); Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1c. higher dlvd. Pac. coast; for Denver, Pueblo, Salt Lake City, Wichita, prices are equalized with Chicago.

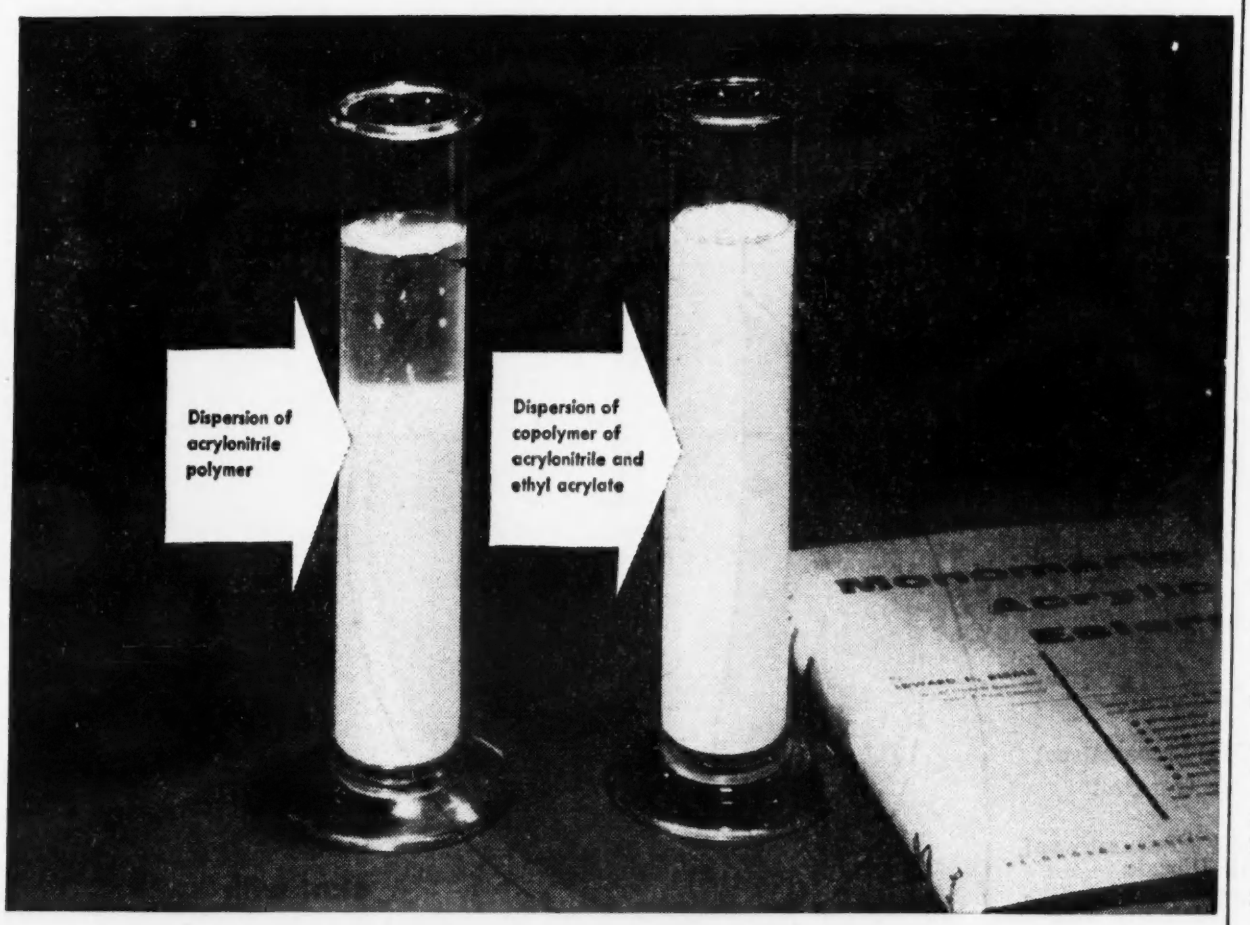
Green, chromium oxide, hydrated, bbls., dms., c.l., frt. alld. lb. 1.00 - 1.10
pure, bgs., c.l., frt. alld lb. .39¾ - —
l.c.l., same basis lb. .40¼ - —
Dyes (see Dyes, coaltar).
Malachite, straight, PTMA, bbls., works lb. 4.60 - —
Paris (see Paris green).
Phthalocyanine toner, bbls., works. lb. 3.95 - —
resinated, bbls lb. 3.50 - —
water dispersable, bbls lb. 1.71 - —
Pigment B, kegs lb. 1.35 - —
paste, kegs lb. .38 - —
Grindelia robusta herb, bls lb. .38 - .40
Guaiacol, NF, cryst., dms., tins lb 2.10 - 2.15
liq., cbys., dms lb. 2.30 - 2.40
Carbonate, NF VII, dms lb. 3.40 - 3.45
Gum, aloe (see Aloe)
Arabic amber sorts, bgs lb. .22 - .23
powd., USP, bbls lb. .27 - .28
Asafetida (see A).
Asphaltum (see A).
Benzoin Sumatra, cs lb. .38 - .42
Camphor (see C).
Cellulose, high vis., bgs., 23,000-lb. lots or more, works, frt. alld lb. .55 - —
smaller lots, same basis lb. .57 - —
Copal, Congo, No. 1, bgs lb. .23 - —
No. 2, bgs lb. .18½ - .20
No. 3, bgs lb. .16½ - .18
Manila C, bgs lb. .42 - .44
CBB, bgs lb. .37 Nom.
DBB bgs lb. .33 - .35
DK, bgs lb. No Stocks
dust, bgs lb. .14 - .16
MA, soft, bgs lb. .23 - .25
WS, bgs lb. .34 - .36
Philippine pale, chips, bgs lb. .24 - .26
nubs, bgs lb. .34 - .36
seeds, bgs lb. .20 - .22
sorts, bgs lb. .22 - —
Gum, pontianak, chips, bgs lb. .28 - —
nubs, bgs lb. .39 - .40
Dammar, Batavia, A, E, cs lb. .27 - .29
dust, bgs lb. .16½ - .17½
E, bgs lb. .20 - .22
East India, batu, bold, bgs lb. .14 - .15½
nubs and chips, bgs lb. .08 - .09
black, bold, bgs lb. .14 - .16
unscraped, bgs lb. .11 - .13
nubs and chips, bgs lb. .11 - .13
pale chips, bgs lb. .13½ - .14½
nubs, bgs lb. .18 - .20
Siam, cs lb. .37 - —
Singapore No. 1, bgs lb. .43 - .45
No 2, bbls lb. .27 - .29
No. 3 bbls lb. No stocks.
dust, bgs lb. .16½ - .17
seeds, bgs lb. .20 - .22
Ester, gum-rosin type, dms., c.l., dlvd, Ill., Ind., Ky., Mich., Mid-Atl. States, N. E. States, Minneapolis, N. C., Ohio, St. Louis, St. Paul, Va., W. Va lb. .14½ - .16
wood-rosin type, dms., c.l., same basis lb. .15 - .16
Guar, food grade, bgs., l.c.l. lb. .40 - .50
tech. grade, bgs., c.l. lb. .32 - —
Karaya, No. 1, NF, powd., bbls. lb. .55 - —
No. 2, powd., bbls. lb. .45 - —
No. 3, powd., bbls lb. .40 - —
Locust bean, powd., bgs lb. .28 - .30
Myrrh, cs lb. .38 - .40
Opium (see O)
Olibanum siftings, cs lb. .15 - .20
tears, cs lb .22 .30
Rosin (see Naval Stores, Protective Coatings Market).
Sterculia (see Gum Karaya).
Tragacanth, No. 1, ribbons, cs lb. 3.00 - 3.50
No. 2, cs lb. 2.55 - 2.60
No. 3, cs lb. 1.75 - 1.80
powdered, USP, bbls lb. 1.25 - 1.35
Gypsum, plaster of paris, 100-lb. paper, bgs., trucks, dlvd. N. Y. C. ton 20.30 - —
terra alba, dom., paper bgs., same basis ton 19.00 - —
works, N. Y. C. ton 16.00 - —
imp. English, 100-lb. paper bags, ex dock, N. Y. C. ton 55.00 - —
ex warehouse ton 60.00 -62.00

H

Hawthorn berries, bgs. lb. .28 - .32
Heliotropin, cryst., cns lb. 4.10 - 4.50
Hellebore root, dom., green, bls lb. .70 - .75
Helonias root, bls lb. 1.75 - 2.00
Hematine extract, cryst., No. 1, bbls., l.c.l. lb. .47 - —
No. 2, bbls., l.c.l. lb. .43 - —
No. 3, bbls., l.c.l. lb. .41 - —
No. 4, bbls., l.c.l. lb. .39 - —
No. 5, bbls, l.c.l. lb. .37 - —
paste, No. 1 bbls., l.c.l. lb. .20½ - —
Henbane leaves, bls lb. .35 - .40
Heptane, indust., tanks, Bayonne, N. J gal. .19 - —
Baytown, Tex gal. .14¾ - —
Borger, Tex gal. .14¾ - —
Hesperidin methylphalcone, bots., works lb. 50.00 - —
Hexachlorophene, dms lb. 2.60 - —
Hexalin (see Cyclohexanol).
Hexamethylenetetramine, tech., bgs., 20,000-lb. lots or more, Perth Amboy or N.Y.C. lb. .222 - —
1,000-19,999-lb. lots, same basis lb. .232 - —
smaller lots, same basis lb. .242 - —
fib. dms., 1,000-lb. lots or more, same basis lb. .239 - —
smaller lots, same basis lb. .249 - —
USP, dms., 500-lb. lots or more, same basis lb. .40½ - —
smaller lots, same basis lb. .41½ - —
Hexane, indust., tanks, Bayonne, N. J gal. .19 - —
Baytown, Tex gal. .15½ - —
Borger, Tex gal. .15½ - —
1-Hexanol, dms., c.l., works lb. .34½ - —
l.c.l., works lb. .35 - —
tanks, works lb. .33 - —
Hexyl cinnamic aldehyde, dms lb. 4.00 - 7.50
Salicylate, dms lb. 1.75 - —
Hexylene glycol, dms., c.l., dlvd lb. .16 - —
l.c.l., dlvd lb. .17 - —
tanks, dlvd lb. .14 - —
n-Hexyl methacrylate, dms., less than truckload, works lb. .71 - —
Hexylresorcinol, USP, dms., 50-lb. lots or more, dlvd lb. 14.00 - —
smaller lots, dlvd lb. 44.50 - —
Histamine diphosphate, USP, bots. kilo. 400.00 - —
l-Histidine hydrochloride, NF, fib. dms., 50-kilo lots, works. kilo. 80.00 -85.00
1-5 kilo lots, works kilo. 90.00 -95.00
Homatropine hydrobromide, USP, bots oz. 8.50 - —
Methylbromide, USP, bots oz. 5.65 - —
Hoofmeal, 17-18% ammonia, bulk, c.l., Chicago unit-ton. 6.25 - —
Horehound herb, bls lb. .16 - .19
Hydrastine, bots oz. 29.50 -31.00
Hydrochloride, NF, bots oz. 29.50 -31.00
Hydrastis (see Goldenseal).
Hydrate, 100%, ret. dms., Lake Charles, La lb. 1.60 - 1.90
Hydrazine, free base, ret. dms., Lake Charles, La lb. 3.00 - 3.30
85%, ret. dms., same basis lb. 1.35 - 1.55
Hydrocortisone acetate, bulk, bots., dms. gram. 4.75 - 5.00
Alcohol, bulk, bots., dms. gram. 4.75 - 5.00
Hydrofuramide, dms., fib. ctns., works lb. .30 - .40
Hydrogen chloride, anhyd., 50-lb. cyls., c.l., works lb. .45 - —
l.c.l., works lb. .55 - .60
Fluoride anhyd., cyls., dlvd. E lb. .30½ - .32½
dlvd. W lb. .39 - —
tanks, works lb. .21 - —
Peroxide, USP, bbls., dlvd lb. .03¾ - .05
35%, dms., c.l., dlvd lb. .202 - —
l.c.l., dlvd lb. .211 - —
tanks, dlvd lb. .1800 - —
Hydroquinone, photo grade, bbls., dms lb. .98 - 1.00
tech., dms., c.l., dlvd lb. .77½ - —
l.c.l. same basis lb. .79½ - —
Hydroxycitronelial, cns lb. 7.65 - 7.90
Hyoscine salts (see Scopolamine).
Hyoscyamine, bots oz. 15.75 -16.00
Hydrobromide, bots oz. 11.00 -12.00
Sulfate, bots oz. 10.50 -11.50
Hypernic extract, cryst., No. 2, bbls., l.c.l. lb. .52 - —
liq., No. 1, bbls., l.c.l. lb. .35 - —
No. 2, bbls., l.c.l. lb. .27 - —

I

Ichthammol, NF, dms lb. .60 - .75
Indian red (see Red, Indian).
Indigo (see Dyes, coaltar, 1171 Indigo synthetic).
Indole, CP bots lb 17.00 -21.00
Inositol, bots., dlvd lb. 5.00 - —
cms., dlvd lb. 4.50 - 4.75
Insect flowers (see Pyrethrum).
Iodine, crude, kgs lb. 1.45 - —
resub, USP, dms., jars lb. 2.30 - 2.32



How to Keep Your Emulsions Under Control:

Use Rohm & Haas Acrylate Monomers

The stability of polymer dispersions is often improved by emulsion copolymerization with acrylates. A case in point is acrylonitrile. The emulsion polymerization of acrylonitrile usually yields a highly unstable dispersion—one in which the polymer rapidly settles. But when ethyl acrylate is used as 25 percent of the monomer mixture, a well-dispersed latex of excellent stability is produced. Similar results are obtained when ethyl acrylate is copolymerized with vinyl chloride or methyl methacrylate.

Improved emulsion stability is just one advantage of copolymerization with acrylate monomers. Other advantages include permanent internal plasticization, improved aging properties, and increased compatibility with plasticizers and other resins.

Write Dept. SP for authoritative literature on acrylate monomers.

Rohm & Haas acrylic monomers include:

Methyl acrylate
Ethyl acrylate
Butyl acrylate
2-Ethylhexyl acrylate
Methyl methacrylate
Ethyl methacrylate
Butyl methacrylate
Hexyl methacrylate
Decyl-octyl methacrylate
Lauryl methacrylate
Stearyl methacrylate
Glacial methacrylic acid

CHEMICALS FOR INDUSTRY

ROHM & HAAS COMPANY

WASHINGTON SQUARE, PHILADELPHIA 5, PA.

representatives in principal foreign countries

Iodochlorohydroxyquinolin, USP, dms	lb.	5.90	—
Iodoform, NF, dms., kgs	lb.	4.90	5.00
a-Ionone, cns	lb.	5.10	5.85
b-Ionone, cs.	lb.	6.00	7.70
Methyl (see under M).			
Ipecac root, bgs	lb.	8.50	9.00
powd., bbls., bxs	lb.	10.00	10.25
Irish moss, bleached, prime, bls	lb.	.30	.35
Iron Compounds (see Ferric or Ferrous).			
Isoborneol, cns	lb.	1.25	1.70
Isobornyl acetate, cns	lb.	.62	.95
Formate, dms	lb.	.80	—
Propionate, dms	lb.	1.15	1.45
Isobutyl acetate, perfume grade, cns	lb.	.75	1.00
solvent grade, dms., c.l., dlvd. E. of Rockies	lb.	.13¼	—
l.c.l., same basis	lb.	.14¼	—
tanks, same basis	lb.	.11¼	—
Isobutyraldehyde, CP, dms., c.l., dlvd	lb.	.27½	—
l.c.l., dlvd	lb.	.28½	—
tech., dms., c.l., dlvd	lb.	.21½	—
l.c.l., dlvd	lb.	.22½	—
tanks, dlvd	lb.	.19½	—
Isoeugenol, cns	lb.	4.40	4.75
Isoniazid, powd., bulk, 25-kilo lots or more	kilo	23.00	25.50
smaller lots	kilo	24.00	26.00
Isopentane, coml. grade, tanks, f.o.b. Tex. refy	gal.	.15½	—
Isonicotinic acid hydrazide (see Isoniazid).			
Isophorone, dms., c.l., works	lb.	.24¼	—
l.c.l., works	lb.	.24¾	—
tanks, works	lb	.22½	—
Isopropanol (see Alcohol, Isopropyl).			
Isopropyl acetate, dms., c.l., dlvd.	lb.	.12	—
l.c.l., same basis	lb.	.13	—
tanks, same basis	lb.	.10	—
Alcohol (see Alcohol, Isopropyl).			
Benzene (see Cumene).			
Ether, dms., c.l., dlvd	lb.	.07	—
l.c.l., dlvd	lb.	.08	—
tanks, dlvd	lb	.05	—
Isopropyl-N-(3-chlorophenyl) carbamate, (CIPC), 70% in xylol, dms., c.l., t.l., works	lb.	.70	—
l.c.l., works	lb.	.714	.814
Isopropyl-N-phenyl carbamate, 450-lb. fib dms., c.l., t.l., works.	lb.	.75	—
l.c.l., works	lb.	.80	.90
Isopropylamine (see Mono, Di, or Tri-).			
Isoquinoline, dms., works	lb.	.65	1.25

J

Jalap root, NF, bls	lb.	.45	.55
powd., bbls., bxs	lb.	.55	.65
Juniper berries, bgs	lb.	.18	.20
Tar, NF, dms	lb.	.42	.60

K

Kaolin (see also Clay China).			
NF, powd., fib. dms.	lb.	.10	.12
colloidal, fib., dms.	lb.	.15½	.17½
Kola nuts, bgs	lb.	.15	—

L

Lactose, crude, bgs., c.l., works	lb.	.15	.15½
edible, fib. dms., 30,000-lb. lots, works	lb.	.22	—
2,000-lb. lots, works	lb.	.22¾	—
200-1,800-lb. lots, works	lb.	.23¼	—
Edible lactose in bgs. 1c. lower.			
fermentation grade, bgs., c.l., works	lb.	.08½	—
USP, fib. dms., 30,000-lb. lots, works	lb.	.24	—
2,000-lb. lots, works	lb.	.24¾	—
200-1,800-lb. lots, works	lb.	.25¼	—
USP lactose in bgs. 1c. lower.			
Lady's slipper root, bls	lb.	1.70	1.75
Lanolin, cosmetic, dms., works	lb.	.28	.30
USP, anhyd., dms., works	lb.	.26	.28
hydrous, dms., works	lb.	.25	.27
Lard, cash, dms., Chicago	lb.	.10¾	—
Larkspur seed, bgs	lb.	.20	.23
Laurel leaves, Greek, bls.	lb.	.12	—
Portuguese, bls.	lb.	.12	—
n-Lauryl methacrylate, dms., c.l. or t.l., works	lb.	.65½	—
Lavender flowers, medium, bls	lb.	.55	.60
ord., bls	lb.	.16	.20
select., bls	lb.	.90	—
Lead acetate, white, cryst., bbls.	lb.	.22	—
gran., bbls	lb.	.23	—
powd., bbls	lb.	.23	—
NF, cryst., gran., powd	lb.	.31	.32
Arsenate, acid powder, dealers, 3-lb. bgs. or larger, c.l., frt. alld. on 96 lbs. or more	lb.	.27½	—
t.c.l., frt. alld	lb.	.28½	—
1-lb. bgs., c.l.	lb.	.41½	—
l.c.l.	lb.	.42½	—
Blue, basic, sulfate, bbls., c.l., shipt. point, frt. alld	lb.	.15¾	—
l.c.l., same basis	lb.	.16¾	—
Carbonate (see Lead, white, basic Carbonate).			
Chloride, dms.	lb.	.43	—
Iodide, NF, V jars	lb.	3.82	—
Linoleate, fused, 26%% Pb, dms.	lb.	.33	—
Metal, pigs, prime, N. Y.	lb.	.15	.1550
St. Louis	lb.	.1480-	.1530
Metallic paste, dms., 20,000-40,000-lb. lots, works	lb.	.33¾	—
10,000-20,000-lb. lots, same basis	lb.	.34¾	—
200-2,000-lb. lots, same basis.	lb.	.35¾	—
Prices ex wnse, Jersey City, N. J., 4½c. per lb. higher.			
Monosilicate, bgs., c.l., works, frt. equald	lb.	.1580-	—
l.c.l., same basis	lb.	.1630-	—
Naphthenate, liq., 16% Pb, dms., dlvd	lb.	.17	—
24% Pb., dms., dlvd	lb.	.21	—
solid, 37% Pb., dms., dlvd	lb.	.27½	—
Nitrate, bbls.	lb.	.22¼	—
Orthosilicate-silica gel, 50-60% PbO, dms., works	lb.	.29¾	.34¼
Peroxide, tech., powd., bbls	lb.	.38¾	.4014
Phthalate, dibasic, dms., works.	lb.	.41	—
Red, 95%, Pb_3O_4, or less, bbls., c.l., works, frt. alld	lb.	.17½	—
l.c.l., same basis	lb.	.18	—
97% Pb_3O_4, bbls., c.l., same basis	lb.	.17¾	—
l.c.l., same basis	lb.	.18¼	—
98% Pb_3O_4, bbls., c.l., same basis,	lb.	.18	—
t.c.l., same basis	lb.	.18½	—
Resinate, precip., 23% Pb, dms., dlvd	lb.	.32½	—
Salicylate, normal, dms., works.	lb.	.46	—
Silicate (see Lead, white, basic, silicate).			
Sulfate (see Lead, blue, basic sulfate, Lead, white, basic sulfate).			
Tallate, liquid, 16% Pb., dms	lb.	.13	—
24% Pb., dms	lb.	.18½	—
solid, 30%	lb.	.23¼	—
Lead, white, basic carbonate, bgs., c.l., shipt. point, frt. alld.	lb.	.17½	—
t.c.l., same basis	lb.	.18½	—
silicate, bgs., c.l., shipt. point, frt. alld	lb.	.16	.19¼
t.c.l., same basis	lb.	.17	.20¼
sulfate, bgs., c.l., shipt. point, frt. alld	lb.	.15¾	—
t.c.l., same basis	lb.	.16¾	—
Lecithin, edible, tech., bleached, non-ret. dms., c.l., works	lb.	.15	.17
t.c.l., same basis	lb.	.15½	.17½
unbleached, non-ret. dms., c.l., same basis	lb.	.13	.15
t.c.l., same basis	lb.	.14½	16½
dl-Leucine, dms., works	lb.	12.25	15.00
Licorice root, whole, bbls	lb.	.10	.12
gran., bbls	lb.	.15	.17
powd., bbls	lb.	.12	.15
Lignosulfonate, 70% tannin, bgs., c.l., works	lb.	.06½	—
t.c.l., works	lb.	.06¾	—
c.l., metropolitan, N. Y. destination, freight equalized with nearest producing point	ton.	18.71	—
Lime, chemical (quicklime), bulk, Hydrated, bulk, c.l., same basis.	ton.	20.21	—
Spray, bulk, c.l., same basis	ton.	23.21	—
Lime salts (see Calcium)			
Lime-ammonium nitrogen 20.5% N (see Ammonium nitrate with dolomite).			
Limestone, grd., bgs., works	ton.	3.50	4.00
Linafool, ex bois de rose oil, dms.	lb.	6.20	8.00
ex lignaloe wood oil, dms	lb.	5.30	7.10
Linalyl acetate, ex bois de rose, 90-92% dms	lb.	6.15	7.95
96-98%, dms	lb	6.73	7.15
ex petitgrain, bots.	lb.	5.95	6.70
Lindane, 25% formulation, dealers, dms., works	lb.	1.58	—
99%, tech., dealers, dms., dlvd.,	lb.	3.10	—
Linden flowers with leaves, bls	lb.	.30	—
without leaves, bls	lb.	.35	—
Linseed meal, expeller, 32-34% bulk, Midwest, mills	ton.	63.00	—
extracted, 36% bulk, same basis,	ton.	59.00	—
Litharge, coml., powd., bbls., c.l., works, frt. equald	lb.	.16½	—
l.c.l., same basis	lb.	.17	—
Lithium benzoate, dms	lb	1.65	1.67
Bromide, NF, dms., works, frt. equald	lb.	2.30	—
Carbonate, NF, dms., c.l., t.l., dlvd	lb.	1.29½	—
ton lots to t.l., dlvd	lb.	1.30	—
tech., dms., c.l., t.l., dlvd., frt. alld., works	lb.	.85	1.12½
t.c.l., same basis	lb.	.90	1.13½
Chloride CP, anhyd., ton lots	lb.	1.28½	—
tech., cryst., dms., c.l., t.l., dlvd., tech., cryst., dms., c.l., t.l., dlvd. or works, frt. alld	lb.	1.05	1.10½
l.c.l., same basis	lb.	1.10	1.25
Citrate, NF, dms	lb.	1.60	1.64
Fluoride, bbls., 10,000-lb. lots., dlvd.	lb.	2.17½	—
ton lots, dlvd	lb	2.18½	—
less ton lots, dlvd	lb.	2.23½	—
Hydride powd., dms., works	lb.	14.00	—
Hydroxide, monohydrate, dms., c.l., t.l., dlvd, or works, frt. alld	lb.	.90	.90½
t.c.l., same basis	lb.	.91½	.96
Manganite, dms., works	lb.	.95	1.15
Nitrate, tech., dms., 100-lb. lots.	lb.	1.25	—
Salicylate, dms	lb.	1.60	1.70

Iodochlorohydroxyquinolin—Magnesia

Lithium silicate, dms., works	lb.	1.10	1.30
Sulfate, dms., c.l., works	lb.	.47½	—
ton lots, works	lb.	.48½	—
less-ton lots, works	lb.	.53½	—
Sulfate, dms., 100-lb. lots	lb.	1.05	1.45
Titanate dms., works	lb.	1.15	1.35
Lithopone, ord., bgs., c.l., dlvd	lb.	.07½	—
t.c.l. dlvd	lb.	.08¼	.08½
titanated (high-strength), bgs., c.l., dlvd	lb.	.10	—
t.c.l. dlvd	lb.	.11	—
Lithopone prices, Pacific Coast, 1c. per lb higher			
Lobelia herb, bls	lb.	.75	—
Lobeline sulfate, bots., works	oz.	37.50	39.00
Logwood extract, cryst., No 1, bbls., t.c.l	lb.	.41	—
No 2, bbls t.c.l	lb	.39	—
liq., No. 1, bbls., t.c.l	lb.	.20	—
No 2, bbls t.c.l	lb.	.19	—
No 3, bbls t.c.l	lb	18½	—
solid, No. 1, boxes, t.c.l	lb.	.35	—
Lycopodium, cs.	lb	2.00	2.25
dl-Lysine hydrochloride, bots	kilo	140.00	150.00

M

Mace, Siauw, siftings, bls	lb.	1.45	1.65
West Indian, No. 1, bls. shipment	lb.	1.58	—
Magnesia, calcined, tech., bgs., ctns., works	lb.	.25¼	.26
syn. rubber grade, light, bgs., c.l., works	lb.	.29¼	—
t.c.l., works	lb.	.30	—
extra light, works	lb.	.29¼	.30
USP, light, ctns	lb.	.35	.36
heavy, bbls	lb.	.45	.52

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ORONITE CHEMICAL COMPANY

Magnesite—Methylene Chloride

Magnesite, chemical grade, calcined, powd., bgs., c.l., works, frt. equald ton 82.50 - —
dead-burnt, standard grain, bulk, c.l., Chewalah, Wash ton 38.00 - —
Magnesium bromide, jars lb. .90 - 1.00
Carbonate, tech., bgs., c.l., frt. equald lb. .10½- —
t.c.l., frt. equald lb. .12 - .13
truckloads, frt. equald lb. .11 - —
USP, bgs., c.l., frt. equald lb. .12½- —
t.l., frt. equald lb. .13 - —
l.c.l., frt. equald lb. .14 - .15

Above prices are quoted f.o.b. works, freight equalized with metropolitan New York and competitive producing points.

Chloride, anhyd., 92% flake or pebble, dms., c.l., works lb. .12¾- —
t.c.l., same basis lb. .14 - .15
hydrous, 99% flake, bgs., c.l., works ton 50.00 - —
l.c.l., works ton 55.00 -105.00
Gluconate, dms., cns lb. 1.30 - 1.37
Hydroxide, NF, medicinal, bbls., dms., kgs lb. .26½- .30
Metal, 99.8% ingots, 10,000 lb. lots or more, works lb. .32½- —
pigs, 10,000-lb. lots or more, works lb. .33¼- —
sticks, cs., works, frt. alld. on carlots lb. .49 - —
Oxide (see Magnesia, calcined).
Peroxide, 15%, dms., works lb. 1.00 - 1.05
Phosphate, tribasic, NF, bbls lb. .75 - —
Silicate (see Talc).
Silicofluoride, bbls., works lb. .10 - .11½
Magnesium sulfate, tech., bgs., c.l., works 100 lbs. 2.15 - —
t.c.l., works 100 lbs. 2.90 - 3.15
USP, cryst., bgs., c.l., works 100 lbs. 2.35 - —
t.c.l., 5,000 lbs., 1 withdrawal 100 lbs. 3.10 - —
smaller lots 100 lbs. 3.35 - —
Trisilicate, USP, dms., 5,000-lb. lots lb. .38 - —
1,000-lb. lots lb. .40 - —
100-lb. lots lb. .45 - —

Bulky and super grades of magnesium trisilicate, 7c. per lb. higher.

Malathion, dms., c.l., works lb. .94 - —
l.c.l., works lb. .96 - .98
Maleic anhydride, dms., c.l., dlvd. E lb. .27 - —
l.c.l., dlvd E lb. .28 - —
tanks, dlvd E lb. .26 - —

Prices on maleic anhydride W. of Rockies, 1½c. higher.

Mandrake root, bls lb. .38 - —
Manganese acetate, bbls., dlvd lb. .35 - —
Arsenate, bgs lb. .16 - —
Borate, tech., fib. dms lb. .25 - —
Carbonate, bbls., works lb. .22 - —
Chloride, anhyd., dms., works lb. .23½- —
Dioxide, African, 84-87%, 40,000 to 99,999-lb. lots, burlap paper lined, bgs., gross for net, works ton 91.50 - —
paper bgs., works ton 88.00 - —
dms., works ton 94.00 - —

Prices for manganese dioxide in 10,000 to 40,000-lb. lots $3 per ton higher.

Manganese gluconate, dms. lb. 1.79 - 1.93
Hydrate, bbls., dlvd lb. .36 - —
Hypophosphite, NF, dms lb. 3.52 - —
Linoleate, liq., 4.35% Mn., dms. lb. .32½- —
solid, precip., 8.2% Mn. bbls. lb. .37½- —
Naphthenate, liq., 6% Mn., dms., frt. alld lb. .27 - —
Resinate, fused, 3½% Mn, dms. lb. .24 - —
precip., 6½-7% Mn, dms lb. .23 - —
Sulfate, fertilizer grade, 65%, bgs., c.l., dlvd. S. E ton 80.50 - —
l.c.l., dlvd. S. E ton 87.50 - —
Tallate, 6% dms lb. .24 - —
Mangrove bark, E. African, 38% tannin, c.l., ex dock ton 71.00 - —
So. American 30% tannin, c.l., tannin, c.l., ex dock ton 58.00 - —
Mannitol, coml., fib. dms., c.l., works lb. .60 - —
single dm., works lb. .65 - —
ton-lots, works lb. .62 - —
MBT (see 2-Mercaptobenzothiazole).
MBTS (see Mercaptobenzothiazyl disulfide).
Melamine, bgs., ton lots, works lb. .33 - —
500 to 2,000-lb. lots, works lb. .33½- —
smaller lots, works lb. .38½- —
Menadione, USP, bots gram. .044 - .05
Menthol, nat., USP, Brazilian, cs lb. 9.00 - —
syn., USP, racemic, cns lb. 5.45 - —
Menthyl salicylate, tins lb. 4.00 - 4.25
2-Mercaptobenzothiazole, bgs., fib. dms. ton lots works, frt. alld lb. .40 - —
less ton lots, same basis lb. .42 - —
Mercaptobenzothiazyl disulfide, bgs., fib. dms., ton-lots, works, frt. alld lb. .50 - —
less ton lots, same basis lb. .52 - —
Mercuric chloride, NF, cryst., dms., 50-lb. lots or more lb. 4.98 - —
gran. or powd., dms., 50-lb. lots or more lb. 4.78 - —
Cyanide, NF VIII, powd., fib. dms. lb. 6.84 - —
Iodide, red, NF, fib. dms lb. 7.72 - —
Oxide, red, NF, powd., fib. dms. lb. 5.90 - 6.01
yellow, tech. (see Yellow, mercury oxide).
USP, fib. dms lb. 6.14 - —
Mercurous chloride (see Calomel).
Iodide, yellow, NF lb. 7.72 - —
Mercury, ammoniated (see White precipitate, USP)
Metal, 76 lb. per flask, net-flask 265.00 -270.00
Mesityl oxide, dms., c.l., dlvd lb. .1350- —
l.c.l. dlvd. lb. 1450- —
tanks, dlvd. lb. 1150- —
Meta-aminophenol (see m-Aminophenol).
Metachloroaniline (see m-Choloraniline)
Metanitroaniline (see m-Nitroaniline)
Metanitroparatoluidine (see m-Nitro-p-toluidine).
Metaphenylenediamine (see m-Phenylenediamine)
Metatoluidine (see m-Toluidine)
Metatolylenediamine (see 2,4-tolylenediamine).
Methanol, nat., denaturing grade, tanks, frt. alld gal. .70 —

Prices on natural methanol W. of Miss. 3c. higher.

syn., Zone 1, dms., c.l., dlvd., or truckload min., frt. alld. gal. .45 - —
l.c.l., same basis gal. .51 - —
tankwagon, 2,000-4,000-gal. lots, dlvd. Metropolitan areas, gal. .33 - —
tanks, 4,000 gal., man., frt. alld. or dlvd. gal. .30 - —
4,000 gal., min., works, Carteret, Camden, N. J gal. .27½- —
Zone 2, dms., c.l., or truckload min., frt. alld. or dlvd gal. .48 - —
l.c.l., same basis gal. .54 - —
tankwagon, 2,000-4,000-gal. lots, min., dlvd. Metropolitan areas gal. .36 - —
tanks, 4,000 gal. man., frt. alld. or dlvd. gal. .33 - —

Synthetic methanol zones are:—Zone 1 is all continental U. S. E. of eastern boundaries of Ariz., Idaho and Utah. Zone 2 is remainder of U. S. west of above state boundaries, comprising Ariz., Calif., Idaho, Nev., Ore., Utah and Wash.

Methenamine (see Hexamethylenetetramine).
dl-Methionine, fib. dms., frt. alld. 50-lb. or more lb. 3.50 - —
feed grade, 98%, fib. dms., same basis lb. 2.65 - —
Methoxychlor, 50% wettable powder, dealers dms. cs. frt. alld lb. .61 - .64
Methyl abietate, non-ret. dms., c.l., dlvd. zone 1 lb. .20½- —
t.c.l. same basis lb. .21 - —
hydrogenated, non-ret. dms., c.l., dlvd. Zone 1 lb. .21 - —
t.c.l., same basis lb. 21½- —

Zone 1 includes New England and Middle Atlantic states, Va., W. Va., N. C., Ohio, Ky., Mich., Ind., Ill., Wis., St. Paul and Minneapolis, Minn.; St. Louis, Mo.; Miss, Ala., Ga., Fla., S. C. and Tenn.

Acetone, nat., dms., l.c.l., E. of Miss., frt. alld gal. .62½- —
syn., dms., c.l., frt. alld. E gal. .57 - —
t.c.l., frt. alld. E gal. .63 - —
tanks, frt. alld. E gal. .45 - —

Synthetic methyl acetone E. territory is all States East of and including Colo., Mont., N. Mex. and Wyo. West territory all states west of those four.

Acrylate, dms., c.l., t.l., dlvd. lb. .43½- —
l.t.l., dlvd. lb. .44½- —
tanks, dlvd lb. .41¾- —
Alcohol (see Methanol)
Amyl acetate, dms., c.l., dlvd. E lb. .15 - —
l.c.l., dlvd. E lb. .16 - —
tanks, dlvd. E lb. .13 - —
Ketone, dms., works lb. 1.05 - —
Anthranilate, cns lb. 2.39 - 2.65
Benzoate, cns., dms lb. .53 - .65
Bromide, jobbers, cyls., various sizes, frt. alld. E lb. .47 - .61
Cellulose, special vis., (1,500-4,000 cps.) 50-lb. bgs., c.l., works. lb. .78 - —
2,000-lb. lots and more, same basis lb. .65 - —
smaller lots, frt. alld. on 100 lbs. lb. .89 - 1.00
standard vis., 15,400 cps.), 50-lb., bgs., c.l., frt. alld. lb. .66 - —
2,000-lb. lots and more, same basis lb. .72 - —
smaller lots, frt. alld. on 100 lbs lb. .75 - .88
Chloride, indust., cyls., frt. equald. lb. .21 - —
tanks, multi-unit, same basis lb. .15 - —
single unit, same basis lb. .11½- —
refrigerator mfrs., cyls., dlvd. lb. .45 - —
other consumers or service men, cyls., dlvd lb. .62 - —
Cinnamate, cns. lb. 1.43 - 1.80
Cyclohexanol, dms., c.l., works. lb. .25½- —
t.c.l., works lb. .36 - —
tanks, works lb. .34 - —
Ethyl ketone, dms., c.l., dlvd. lb. .13 - —
l.c.l., dlvd lb. .14 - —
tanks, dlvd lb. .11 - —
Formate, refd., dms. lb. .35 - .40
tech., non-ret. dms., any quantity, works lb. .10 -
Heptin carbonate, bots lb. 33.00 -42.00
p-Hydroxybenzoate, fib. dms lb. 1.90 - 2.00
Ionone, standard, cns., dms lb. 5.10 - 5.85
Isobutyl carbinol, dms., c.l., dlvd. lb. .15 - —
l.c.l., dlvd lb. .16 - —
tanks, dlvd lb. .13 - —
Ketone, dms., c.l., dlvd lb. .15 - —
l.c.l., dlvd. lb. .16 - —
tanks, dlvd. lb. .13 - —
Methacrylate, dms., c.l., t.l., frt. equald with Belle, W. Va. lb. .36½- —
smaller lots, same basis lb. .37 - —
tanks, same basis lb. .35 - —
Naphthyl ketone, cryst., cns lb. 3.60 - 4.30
Parahydroxybenzoate (see Methyl p-Hydroxybenzoate).
Roseaniline, chloride, NF, fib. dms., 5-lb. lots lb. 5.64 - —
Salicylate, USP, cns., 500-lb. lots lb. .56 - —
Testosterone, USP, 100-gram bots. gram. .68 - —
2-Methylbenyzlamine, dms., l.c.l., works lb. 1.25 - —
2-Methylbenzyl dimethylamine, dms., c.l., works lb. 1.89 - —
l.c.l., works lb. 1.90 - —
2-Methyl-5-ethyl pyridine dms., c.l., works lb. .47½- —
l.c.l., works lb. .48 - —
tanks, works lb. .46 - —
Methylene blue, fib. dms., 100-lb. lots, frt. adjusted lb. 3.25 - 3.60
smaller lots, same basis lb. 3.40 3.60
Chloride, tech., dms., c.l., dlvd. E lb. .13½- —
l.c.l., same basis lb. .14½- —
tanks, same basis lb. .12½- —

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From pharmaceuticals to fertilizers and building board to rubber, Magnesia compounds serve industry as fillers, extenders, adsorptive and conditioning agents, and many other uses. Michigan's brine wells are a superlative source of these useful compounds. Michigan Chemical Corporation now in its 20th year producing quality chemicals from these wells, can be depended upon to supply you with your magnesia requirements.

TYPICAL ANALYSES OF MICHIGAN MAGNESIA COMPOUNDS

	No. 1 Calcined Magnesite	No. 5 Calcined Magnesite	No. 15 Calcined Magnesite	No. 30C Light Calcined Magnesia	No. 40 Extra Lt. Calcined Magnesia	Basic Magnesium Carbonate	(NF Grade) Magnesium Hydroxide	(Tech. Grade) Magnesium Hydroxide
Bulk density, weight per cubic foot	60 lb.	28 lb.	24 lb.	8½ lb.	5 lb.	5.5 lb.	15 to 25 lb.	app. 20 lb.
Ignition loss:	0.5%	1.5%	2.5%	1.9%	3.0%	56.5%	PASSES N. F. IX SPECIFICATIONS	31.4%
Chloride (as Cl):	0.08	0.1	0.2	0.25	0.25	0.2		
Analysis, ignited basis:						NOT IGNITED		NOT IGNITED
SiO_2	0.3	0.3	0.3	0.3	0.3	0.15		0.20
Fe_2O_3	0.2	0.2	0.2	0.2	0.2	0.08		0.15
Al_2O_3	0.2	0.2	0.2	0.2	0.2	0.08		0.15
CaO	1.0	1.0	1.0	1.0	1.0	0.7		0.7
Mn				0.01	0.01	0.00		
Free Moisture						1.5		2.0
Screen test: Through 200 mesh		95%		99.9%	99.9%	99.99%	99.0%	99.0%
Screen test: Through 325 mesh			99.5%	99.5%	99.5%	99.5%		

We will be glad to provide further information on these Magnesia compounds, or to send you a Michigan Chemical Catalog containing technical data and other information on Michigan Chemical products.

MICHIGAN CHEMICAL CORPORATION Saint Louis, Michigan

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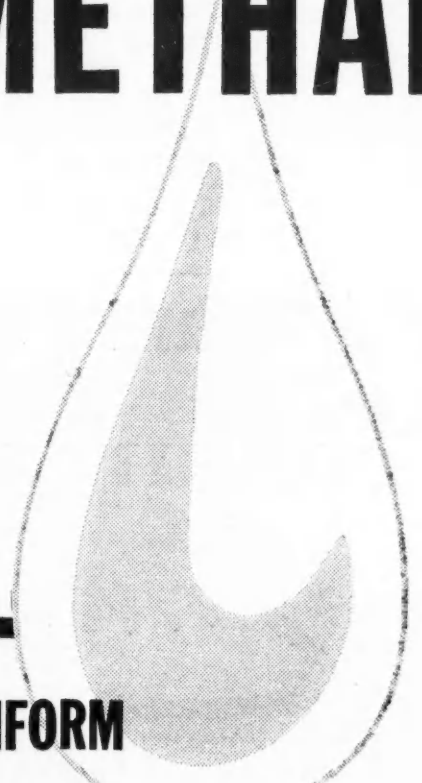
Distillation Range*....1.0°C. Maximum
Non-volatile Content..0.001% Maximum
Acetone Content.....0.003% Maximum
Acidity or Alkalinity..0.003% Maximum
Color, A.P.H.A. .....5 Maximum
Odor.....free from foreign odor

*ASTM Method D 268



ALWAYS UNIFORM

These rigid specifications mean that Du Pont Methanol is always uniform from shipment to shipment . . . always dependable. Thus, when you use Du Pont Methanol in your plant, you have the assurance that your methanol supply will be of consistent high quality . . . that variations in your products and processes based on the use of methanol will be held to a minimum.

A product of Du Pont pioneering and research. Du Pont has pioneered and led in the production of synthetic methanol for the past 25 years—consistently improving the quality of this highly versatile, basic chemical. When you specify Du Pont Methanol, you are specifying the *standard of the industry*—available nationally through agents, shipped from strategically located stock points in tank cars; tank transports and tank wagons from some locations; and 55-gallon non-returnable steel drums. E. I. du Pont de Nemours & Co. (Inc.), Polychemicals Dept., Wilmington 98, Delaware.

Available Nationally Through Conveniently Located Agents

(Since offices listed may also serve outside the state shown, contact agent nearest you.)

CALIFORNIA
Los Angeles . . . Braun Corporation, 2260 E. 15th St.
San Francisco, Braun-Knecht-Heimann, 1400 16th St.

COLORADO
Denver.....The Chemical Sales Co., 1125 7th St.

FLORIDA
Jacksonville.....Apperson Chemical, Inc. 2903 Strickland Street
Miami.....Biscayne Chemical Laboratories, Inc. 200 N. E. 11th Street

GEORGIA
Atlanta...Chemical Services, Inc., Box 264, Sta. D

ILLINOIS
Chicago.....Central Solvents & Chemicals Co. 2540 W. Flournoy St.
Chicago...Phillips & Martin Co., 5524 N. Wolcott

INDIANA
Fort Wayne . . . Hoosier Solvents & Chemicals Corp. Nelson Road
Indianapolis . . . Hoosier Solvents & Chemicals Corp. 1650 Luett Avenue

KANSAS
Wichita.....Barada & Page, Inc., 2041 N. Mosley

KENTUCKY
Louisville.....Dixie Solvents & Chemicals Co. Dixie Highway & Appleton Lane

LOUISIANA
New Orleans . . . Southern Solvents & Chemicals Corp., 917 Jefferson Highway, P. O. Box 4067

MARYLAND
Baltimore...Heidy Chemicals Corp., 920 S. Eutaw St.

MASSACHUSETTS
Boston . . . Howe & French, Inc., 101 Broad Street
Holyoke . . Eastern Chemicals, Inc., 76 Front Street

MICHIGAN
Detroit.....Western Solvents & Chemicals Co. 6472 Selkirk Avenue
Grand Rapids . . . Wolverine Solvents & Chemicals Co., 1500 Century Ave., S. W.

MINNESOTA
St. Paul.....Lyon Chemicals, 2305 Hampden Ave.

MISSOURI
Kansas City.....Barada & Page, Inc. Guinotte & Michigan Avenues
Kansas City . . . Missouri Solvents & Chemicals Co. 2522 Nicholson Avenue
St. Louis . . . Missouri Solvents & Chemicals Co. 419 De Soto Avenue

NEW JERSEY
Lyndhurst...Stoney-Mueller, Page & Newark Ave.

NEW YORK
Binghamton . . . Collier Chemicals, Inc., 8 Broad St.
Buffalo . . . . Chemical Sales Corp., 1382 Niagara St.
Rensselaer.....Eastern Chemicals, Inc., South St.
Rochester.....Chemical Sales Corp., 1600 Jay St.
Syracuse.....Eastern Chemicals, 103 N. Beech St.

NORTH CAROLINA
Durham . . . Cardinal Products, Inc. P. O. Box 1611

OHIO
Cincinnati.....Amsco Solvents & Chemicals Co. 4619 Reading Road
Cleveland.....Ohio Solvents & Chemicals Co. 3470 W. 140th Street
Toledo.....Western Solvents & Chemicals Co. W. Central Avenue

OREGON
Portland.....Van Waters & Rogers, Inc. 3950 N. W. Yeon Avenue

PENNSYLVANIA
Pittsburgh.....Vitro Mfg. Co., 60 Greenway Dr.

TEXAS
Dallas..Van Waters & Rogers, Inc., 10216 Denton
Dallas...Texas Solvents & Chemicals, 2500 Vinson
Houston...Texas Solvents & Chemicals, 8501 Market

UTAH
Salt Lake City.....Braun-Knecht-Heimann Co. 650 West Eighth South Street
Salt Lake City.....Wasatch Chemical Co. 2225 South Fifth East Street

WASHINGTON
Seattle...Van Waters & Rogers, Inc., 4000 1st Ave., S.
Spokane.....Van Waters & Rogers, Inc. North 809 Washington Street

WISCONSIN
Milwaukee...Wisconsin Solvents & Chemicals Corp. 1719 S. 83rd Street

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BETTER THINGS FOR BETTER LIVING
...THROUGH CHEMISTRY
Polychemicals
DEPARTMENT
CHEMICALS • PLASTICS

b-Methylnaphthalene—1-Octanol

b-Methylnaphthalene, 32°C. m.p., dms., works lb. .80 • —
Methylparaben (see Methyl p-hydroxybenzoate).
Methylpentanediol (see Hexyleneglycol).
Methylphenylpyrazolone (see 1-Phenyl-3-methylpyrazolone-5).
Methylthionine chloride (see Methylene blue).
Mica, dry-grd., paint plastic, 100 mesh, bgs., c.l., works lb. .04¼- —
roofing, 20 to 80 mesh, works lb. .03 • .04
wet-grd., biotite, bgs., c.l., works, frt. alld. E lb. .06¼- —
l.c.l., ex-whse or frt. alld. E lb. .07 • —
paint or lacq., bgs., c.l., works, frt. alld lb. .07¾- —
l.c.l., ex-whse or frt. alld. E lb. .08½- —
rubber, bgs., c.l., works, frt. alld. E lb. .07½- —
l.c.l., ex-whse or frt. alld. E lb. .08½- —
wallpaper, bgs., c.l., works, frt. alld., E lb. .07¾- —
l.c.l., ex-whse or frt. alld. E lb. .08¼- —
white, extra, fine, bgs., c.l., works, frt. alld. E lb. .07¾- —
l.c.l., ex-wnse or frt. alld. E lb. .08½- —
Mica, wet-grd. W. of Miss R. ½c. higher. W of Rockies, 1c. higher.
Mineral spirits (see Petroleum mineral spirits).
Molasses, blackstrap feed grade, tanks, New Orleans gal. .10¼- .11½
New York gal. .12½- —
Molybdenum (metal), powd., 80 or 200 mesh, ctns., works kilo. 8.80 • —
Molybdenum trioxide, pure, kgs., works lb. 1.05 • —
tech., kgs., works, basis Mo. content lb. 1.25 • —
Monobutylamine, dms., c.l., E. of Rockies lb. .55 • —
l.c.l., same basis lb. .56 • —
tanks, same basis lb. .53 • —
Monochlorobenzene dms., c.l., frt. alld. or dlvd. E lb. .10 • —
l.c.l., same basis lb. .11 • —
tanks, same basis lb. .08½- —
Monoethanolamine, dms., c.l., dlvd. E lb. .27 • —
l.c.l., same basis lb. .28 • —
tanks, same basis lb. .25 • —
Monoethylaiphanaphthylamine (see N-Ethyl-a-naphthylamine).
Monoethylamine, 70% contained amine, dms., c.l., dlvd. E lb. .35 • —
l.c.l., dlvd. E lb. .36 • —
tanks, dlvd. E lb. .33 • —
Monoethylaniline (see N-Ethylaniline).
Monoethylortnotoluidm (see N-Ethyl-o-toluidine).
Monoisopropanolamine, dms., c.l., dlvd. E lb. .27 • —
l.c.l., same basis lb. .28 • —
tanks, same basis lb. .25 • —
Monoisopropylamine, dms., c.l., dlvd. lb. .32 • —
l.c.l., same basis lb. .33 • —
tanks, same basis lb. .30 • —
Monomethylamine, 30-35% soln., dms., c.l., frt. equald., 100% basis. lb. .40 • —
l.c.l., frt. equald, 100% basis. lb. .40½- —
tanks, frt. equald, 100% basis. lb. .31 • —
Monoethylamine, 40% soln., dms., c.l., frt. equald., 100% basis. lb. .37 • —
l.c.l., frt. equald, 100% basis. lb. .37½- —
tanks, frt. equald., 100% basis. lb. .31 • —
Monosodium fluoroacetate (see Sodium fluoroacetate monobasic).
Mono-tertiary-butylmetacresol (see 6-tert-Butyl-m-cresol).
Glutamate (see Sodium glutamate monobasic).
Phosphate (see Sodium phosphate monobasic).
Morphine, cns. oz. 12.40 -12.60
Acetate, anhyd., cns. oz. 9.95 -10.00
Hydrobromide, cns. oz. 9.90 • 9.95
Hydrochloride, NF, cns. oz. 9.90 • 9.95
Sulfate, USP, cns. oz. 9.90 -10.05
Morpholine dms., c.l., dlvd. E lb. .54¾- —
l.c.l., dlvd. E lb. .55¾- —
tanks, dlvd. E lb. .52¾- —
Musk, syn., ambrette, 100-lb. lots, fib. dms. lb. 5.15 • —
25-lb. lots, cns lb. 5.20 • —
5-lb. lots, cns lb. 5.30 • —
ketone, 100-lb. lots, fib. dms. lb. 5.30 • —
25-lb. lots, cns lb. 5.35 • —
5-lb. lots, cns lb. 5.45 • —
xylol, 100-lb. lots, fib. dms. lb. 1.40 • —
25-lb. lots, cns lb. 1.45 • —
5-lb. lots, cns lb. 1.50 • —
Mustard seed, Danish, yellow, bgs lb. .11½- .12
Dutch, yellow, bgs lb. No prices.
English, yellow, bgs. lb. .13 • —
Montana, oriental, bgs. lb. No prices.
yellow, bgs lb. No prices.
Myrobalans, J-1, assorted, bgs., ex dock ton. 58.00 • —
crushed, bgs., ex dock ton. 82.00 • —
Bombay, bgs., ex dock ton. 55.00 -56.00
extract, Indian, solid, 55% tannin, bgs., ex dock, plus duty lb. .10 • .10¼

N

Naphtha, painters (see Petroleum naphtha V. M. & P.).
Solvent (see S).
Naphthalene, crude, dom., 74° tanks, frt. equald. lb. .06¼- —
76°, bgs., c.l., same basis lb. .07½- —
l.c.l., same basis lb. .07¾- —
tanks, same basis lb. .07 • —
imp., 78°, large lots lb. .07 Nom.
refd., dms., indust., chipped or crushed, bgs., frt. equald. lb. .12¾- —
flake, bgs., same basis lb. .14 • —
tanks, same basis lb. .11¾- —
balls, flakes, wholesalers, jobbers, bbls., c.l., same basis. basis lb. .15½- —
cs., 50 lbs., c.l., same basis lb. .15¾- —
1-lb. pkgs. c.l., same lb. .18½- —
fib. dms., c.l., same basis lb. .13 • —
chipped, 100-lb. paper bgs., same basis lb. .12½- —
a-Naphthol, bbls., frt. alld lb. 1.00 • —
b-Naphthol, tech., bbls., c.l., works. lb. .34½- —
l.c.l., works lb. .36½- —
Benzoate, fib. dms., works lb. 3.00 • —
custom contract, works lb. 1.85 • —
Salicylate, dms lb 5.00 • —
Sulfate, cns lb. 35.00 • —
a-Naphthylamine, bbls., frt. alld lb .50 • —
b-Naphthylamine, tech., flake, bbls., works lb. 1.60 • —
Neocinchophen, USP, dms., frt. adjusted lb. 7.00 • 8.00
Neomycin, fib. dms., 100-kilo lots, basis, activity gram. .60 • —
1-kilo lots, basis, activity gram. 1.20 • —
Nerolin, cns lb. 2.15 • 2.65
Niacin (see Acid, nicotinic)
Niacinamide (see Nicotinamide).
Nickel acetate, bbls., dlvd. lb. .77 • .90½
Carbonate bbls., dlvd. lb. .73¾- .81¾
Chloride, bbls., dlvd lb. .38½- .46½
Formate, bbls., ton lots, frt. alld. lb. .68 • .69
Metal, electro cathodes, cs., works. lb. .64½- —
Nitrate, bbls., works lb. .37 • .38
Oxide, black, bbls. lb. .76 • —
green, bbls. lb. .76 • —
Sulfate, bgs., c.l., dlvd lb. .30¼- —
l.c.l., dlvd lb. .31¼- .38¼
Nicotinamide, USP, dms., frt. adjusted kilo. 12.00 -12.30
Hydrochloride, dms., frt. adjusted. kilo. 11.50 -11.80
Nicotine sulfate, 40%, dealers, 50-lb. dms., frt. alld lb. 1.20 • —
manufacturers, 500-lb. dms., frt. alld lb. 1.03 • —
Niger seed, bgs lb. .11 • .11½
Nikethamide, cbys lb. 5.00 • —
m-Nitroaniline, dms., frt. alld lb. 1.05 • —
o-Nitroaniline, flaked, dms lb. .54 • .57
powd., dms lb. .60 • —
p-Nitroaniline, dms., l.c.l., frt. alld. lb. .51½- —
Nitrobenzene, dbl. dist., dms., c.l., frt. alld lb. .12 • —
l.c.l., frt. alld lb. .13 • —
tanks, frt. alld lb. .11 • —
o-Nitrobiphenyl, tech., dms., c.l., works lb. .14½- —
l.c.l., works lb. .15 • —
tanks, works lb. .13 • —
Nitrocellulose, ester-soluble, 30-35 cps., ¼, ½, ¾, 5-6, 15-20, 30-40, 60-80, 125-175, secs., bbls., c.l., works lb. .34 • —
l.c.l., same basis lb. .35 • .37
18-25 cps., bbls., c.l., same basis lb. .36 • —
l.c.l., same basis lb. .37 • .39
250-400, 600-1,000 secs., bbls., c.l., same basis lb. .39 • —
l.c.l., same basis lb. .40 • .42
spirit-soluble, 30-35 cps., ¼, ½, secs., bbls., c.l., same basis lb. .41 • —
l.c.l., same basis lb. .42 • .44
5-6 cps., 40-60 secs., bbls., c.l., same basis lb. .40 • —
l.c.l., same basis lb. .41 • .43
Denatured alcohol used in the manufacture of nitrocellulose is charged extra. Drums extra but returnable.
o-Nitrochlorobenzene, dms., c.l., frt. alld lb. .20 • —
l.c.l., same basis lb. .21 • —
tanks, same basis lb. .18 • —
p-Nitrochlorobenzene, dms lb. .26 • .27
2-Nitro-4-chlorophenol, dms lb. .75 • —
Nitroethane, dms., c.l., dlvd. E lb. .24 • —
l.c.l., dlvd. E lb. .24¾- —
tanks, dlvd. E lb. .22½- —
Prices West of Rockies are 1c. higher.
Nitrogen solution, 37%N, tanks, frt. equald., per ton of product basis ton. 46.50 • —
40.8%N, tanks, same basis ton. 51.15 • —
Nitrogenous process tankage, bulk, works unit-ton. 4.10 • 5.10
Sewage sludge, bulk, works unit-ton. 2.75 + .50
Nitromethane, dms., c.l., dlvd. E lb. .24 • —
l.c.l., dlvd. E lb. .24¾- —
tanks, dlvd. E lb. .22½- —
Prices West of Rockies are 1c. higher.
a-Nitronaphthalene, bbls, frt. alld. lb. .41 • —
Nitropropane-1, and -2, dms., c.l., dlvd. E lb. .22½- —
l.c.l., dlvd. E lb. .23¼- —
tanks, dlvd. E lb. .21 • —
Prices West of Rockies are 1c. higher.
o-Nitrophenol, dms., works, frt. equald lb. .94 • —
p-Nitrophenol, dms., works, frt. equald lb. .50 • —
o-Nitrotoluene, dms., c.l., frt. alld lb. .10 • —
l.c.l., frt. alld lb. .11 • —
tanks, frt. alld lb. .09 • —
p-Nitrotoluene, dms., works lb. .23 • .36
m-Nitro-p-toluidine, dms lb. 1.59 • —
Nitrous ether, conc., bots. 100-lb. lots lb. 1.28 • 1.35
Nonyl phenol, dms., c.l., frt. alld. lb. .26 • —
l.c.l., frt. alld lb. .27 • —
tanks, frt. alld lb. .24 • —
Nutgalls, Aleppo, bgs lb. .36 • .38
Chinese, bgs. lb. No prices.
Nutmeg, East Indian, bgs. lb. .42 • .44
West Indian, bgs lb. .36 • .37
lb. .42 • .43
Nux vomica, bis lb .10 • .12
powd., bbls., bxs lb. .15 • .17

O

Octane, indust., tanks, Bayonne, N. J gal. .19 • —
Baytown, Tex gal. .15¾- —
Borger, Tex gal. .15¾- —
1-Octanol, tech., dms., c.l., dlvd lb. .35 • —
l.c.l., dlvd lb. .37 • —
tanks, dlvd lb. .32½- —

Despite industry's ever-increasing requirements for chemicals, you don't need a magic lamp to assure adequate supplies in the future.

Coordinated planning of your production with Olin Mathieson assures the availability of chemical raw materials regardless of changing market conditions; assures adequate chemical production to supply growing industrial capacity; speeds the development of new chemical products and processes; provides greater flexibility in shipping and handling of materials; provides the personal attention of recognized product experts backed by widely diversified research facilities.

Today, more than ever, an association with an alert, aggressive chemical producer is essential to your future. Olin Mathieson's long experience and familiarity with the broad market picture will prove invaluable in your planning. Why not consult with us *now?*

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OLIN MATHIESON CHEMICAL CORPORATION
INDUSTRIAL CHEMICALS DIVISION • BALTIMORE 3, MD.

3500

INORGANIC CHEMICALS: Ammonia • Bicarbonate of Soda • Carbon Dioxide • Caustic Soda • Chlorine • Hydrazine and Derivatives • Soda Ash
Hypochlorite Products • Nitrate of Soda • Nitric Acid • Sodium Chlorite Products • Sulphate of Alumina • Sulphur (Processed) • Sulphuric Acid

ORGANIC CHEMICALS: Ethylene Oxide • Ethylene Glycols • Polyethylene Glycols • Glycol Ether Solvents • Ethylene Dichloride • Dichloroethylether
Formaldehyde • Methanol • Sodium Methylate • Hexamine • Ethylene Diamine • Polyamines • Ethanolamines • Trichlorophenol • Trichlorobenzene

Octyl phenol, bgs., c.l., works lb. .23¼- —
l.c.l., works lb. .23¾- —
tanks, works lb. .22½- —
Drum prices for octyl phenol are 1c. higher.

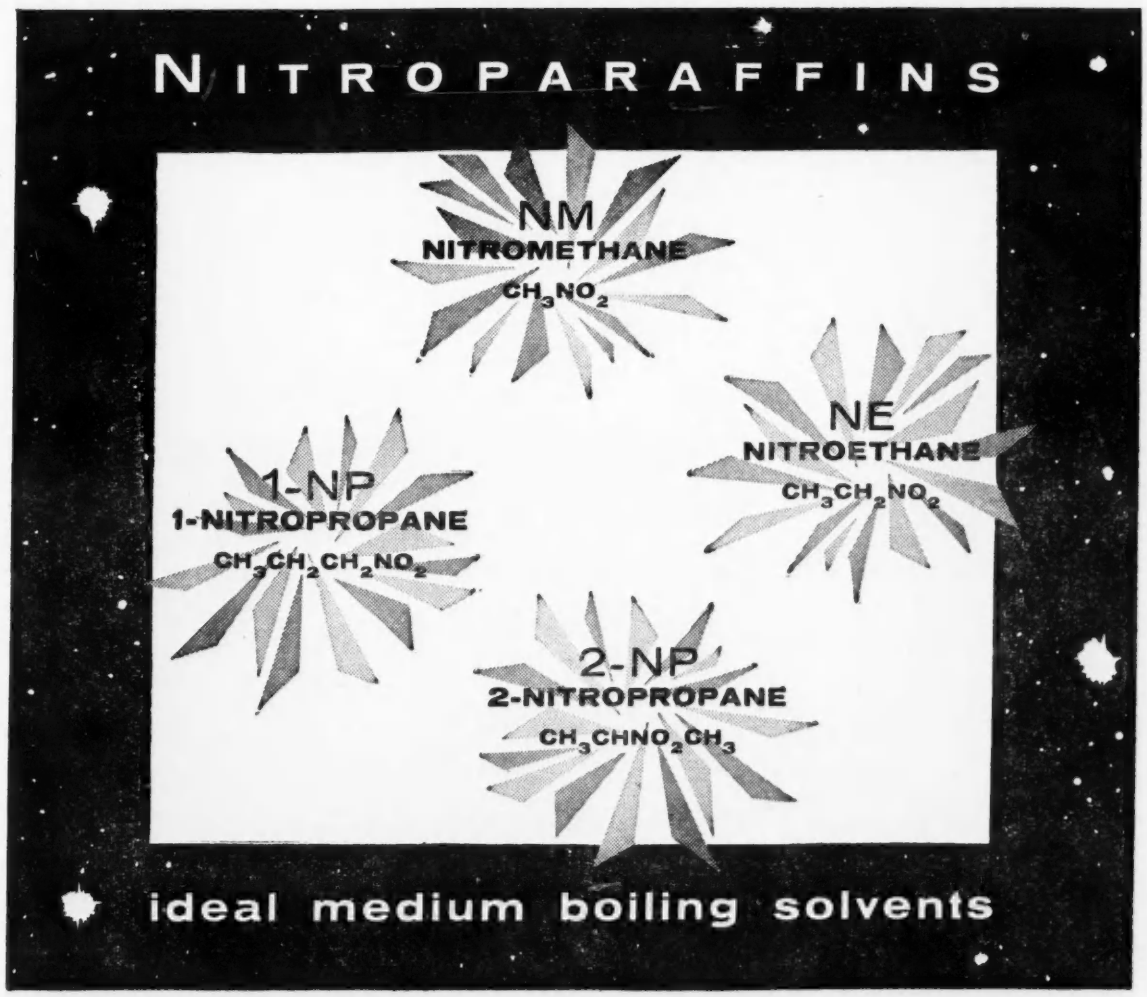
(Essential oils prices listed below are f.o.b. New York, with differences between high and low quotations due to differences in quantity, quality or in individual suppliers' views.)

Oil, abies, siberica, crns lb. 3.00 - 3.50
Almond, artif., bitter (see Benzaldehyde).
nat., bitter, F.P.A., bots lb. 3.00 - 3.75
NF, bots. lb. 3.25 - 3.75
sweet, USP, dms., crns. lb. .62 - .80
Allspice (see Oil, pimento).
Amyris, dms. lb. 1.40 - 1.95
Angelica root, bots. lb. 66.00 -100.00
seed, bots lb. 56.00 -90.00
Aniline (see A).
Anise, USP, dms lb. 3.25 - 4.00
Apricot, kernel, USP, dms. lb. .38 - .45
Avocado, crns. lb. 3.25 - —
Babassu, crude, tanks lb. .15¼- —
Bay, NF, Puerto Rican, 50-55%, crns lb. 1.80 - 2.75
55-60%, crns. lb. 2.10 - 2.50
West Indian, 50-55%, crns., dms., lb. 1.85 - 2.40
Bergamot, nat., NF, Italian, crns. lb. 8.50 -11.00
Birchtar, crude, crns lb. 1.50 - 1.90
rectified, NF, crns lb. 1.75 - —
Bois de rose, Brazil, dms lb. 4.55 - 5.60
Mexican (see Oil lignaloe wood).
Bone, dms., works lb. .65 - .70
Cajeput, native, crns lb. 1.75 - 2.10
redist., USP, crns lb. 2.25 - 3.00
Calamus, bots lb. 12.00 -26.00
Camphor, sassafrassy, dms lb. .40 - .60
white, dms lb. .21 - .50
Cananga, native, crns lb. 7.85 -10.25
rectified, crns. lb. 12.00 -14.75
Caraway, NF, crns lb. 3.75 - 5.00
Capsicum (see Capsicum oleoresin)
Cardamom, NF, bots lb. 32.00 -40.00
Cassia, USP (see Oil, cinnamon, USP)
Castor, blown, dms., c.l. lb. .1950- —
l.c.l. lb. .2000- —
dehydrated, bodied, dms., c.l lb. .2160- —
l.c.l. lb. .2210- —
tanks lb. No prices.
unbodied, dms., c.l. lb. .2010- —
l.c.l. lb. .2060- —
tanks lb. No prices.
hydrogenated, bgs., c.l., dlvd lb. .20½- —
l.c.l., dlvd lb. .24 - —
No. 3, tech., dms., c.l. lb. .1475- —
l.c.l. lb. .1525- —
tanks lb. .1300- —
No. 1, Brazilian, tanks lb. .14 - .14¼
sulfonated, 50%, dms., l.c.l. lb. .11½- .12
75%, dms., l.c.l. lb. .14½- .15
USP, dms., c.l. lb. .1700- —
l.c.l. lb. .1750- —
tanks lb. .1500- —
refd. and deodorized, dms., c.l. lb. .1850- —
l.c.l. lb. .1900- —
tanks lb. .1675- —
Cedarleaf, USP, XII, crns., dms. lb. 2.90 - 3.50
Cedarwood, crns., dms lb. .70 - 1.00
Celery seed, bots lb. 12.50 -20.00
Chamomile, blue, Hungarian, bots. lb. 90.00 -180.00
Chenopodium, NF, crns lb. 3.75 - 5.00
Chinawood (see Oil, tung).
Cinnamon bark, bots lb. 25.00 -65.00
leaf, crude, dms lb. 1.30 - 2.00
USP crns. dms., (Cassia) lb. No stocks.
Citronella, Ceylon, crns., dms lb. 1.05 - 1.70
Java, true, dms lb. 1.75 - 2.00
Java-type, crns. lb. 2.00 - 2.25
Clove, bud, USP, crns., dms. lb. 2.85 - 4.00
leaf, crude, dms lb. 1.30 - 2.00
Coconut, crude, tanks, N. Y. lb. .12¼- —
Pac. Coast lb. .11¼- —
refd., Cochin type, tax incl. l.c.l lb. .18½- —
deodorized, tax incl., dms., l.c.l. lb. .20½- —
Cod, Newfoundland, dms lb. .11 - —
Codliver, USP, dms gal. 1.50 - 1.80
Copaiba, crns lb. 1.50 - 2.50
Coriander, USP, bots lb. 11.75 -17.00
Corn, crude, tanks, works lb. .11¾- —
foots (soapstock), acid 95%, tanks, N. Y. lb. .04¾- —
refd., salad, dms lb. .16¾- .17
tanks lb. .15¼- —
Costus, bots lb. 8.00 - —
Cottonseed, crude, tanks, South East lb. .11½- —
Valley lb. .11⅜- —
Texas lb. .11¼- .11⅜
foots (soapstock), acid 95%, tanks, N. Y. lb. .04¾- —
raw, 50%, tanks, N. Y. lb. .01¾- —
refd., salad, dms lb. .15¾- .15⅞
tanks lb. .15¼- —
Creosote (see Creosote, coaltar).
Crude (see Petroleum, crude).
Cubeb, crns. lb. 4.25 - 6.25
Cumin, bots., crns lb. 4.15 - 5.75
Cypress, bots lb. 5.30 - —
Degras (see D).
Dillseed, bots. lb. 2.80 - 4.25
Dillweed, dom., bots., dms lb. 3.50 - 5.00
Dip (see D).
Erigeron, crns. lb. 5.50 - 7.50
Eucalyptus, NF, rectified, 70-80%, drums lb. .70 - 1.05
80-90%, dms. lb. .85 - 1.25
Fennel, sweet, USP, crns. lb. 2.30 - 3.25
Fir, Canada, crns lb. 2.35 - 3.00
Fish, refd., alkali, dms lb. .1330- .1380
kettle-bodied, dms lb. .1560- .1610
light-pressed, dms lb. .1180- .1230
tanks lb. .1030- —
Fishliver, crude, for feeds or concentrating, 4,000 to 12,000 A units per gram, dms., 1,000,000 units. .08 - .09
10,000 to 20,000 A units per gram, dms., 1,000,000 units. .09 - .10
25,000 to 35,000 A units per gram, dms., 1,000,000 units. .09 - .10
55,000 A units per gram, dms, 1,000,000 units. .10½- .11
100,000 A units per gram., dms 1,000,000 units. .12 - .14
200,000 A units per gram., dms 1,000,000 units. .12 - .14
300,000 A units per gram., dms., 1,000,000 units. .12 - .14⅛
400,000 A units per gram, dms., 1,000,000 units. .12 - .14⅛
500,000 A units per gram., dms 1,000,000 units. .12 - .14⅛
Prices above are based on the USP XIV method of conversion, Morton Stubbs Corrected E x 1900.
Fusel (see F).
Garlic, pure, bots oz. 5.75 - 9.50
Gaultheria (see Oil, wintergreen).
Geranium, Algerian, crns lb. 11.50 -14.00
Bourbon, crns. lb. 11.75 -14.50
Turkish (see Oil palmarosa)
Ginger, dist., bots. lb. 15.50 -20.00
Grapefruit, dms. lb. 2.00 - 3.25
Grease, No. 1, dms lb. .14¾- .16⅛
extra, winter, strained, dms lb. .17¼- .19
prime, burning, dms lb. .18¾- .20¼
Guaiacwood, crns lb. 1.40 - 1.90
Hemlock, crns. lb. 2.10 - 2.50
Juniper berry, NF, VIII, bots lb. 2.75 - 4.00
twice rectified, bots lb. 3.60 - 7.00
Tar, NF (see Juniper tar).
Wood, tech., crns. lb. .38 - .55
Lard (see Oil, grease).
Laurel leaf, dms, crns. lb. 9.75 -12.50
Lavandin, dms., crns lb. 2.85 - 3.55

Oil, lavendar, flower, USP, French, 30-32% ester, crns. lb. 2.85 - 4.60
38-40% ester, crns lb. 9.50 -13.20
40-42% ester, crns lb. 10.00 -16.50
spike, Spanish, crns lb. 1.85 - 2.30
Lemon, USP, Calif., crns., dms lb. 4.50 - 5.50
Messina, crns. lb. 4.85 - 9.80
terpeneless, bots lb. 32.00 -85.00
Lemongrass, crns., dms lb. 1.75 - 2.50
Lignaloe wood, Mex., crns lb. 3.70 - 4.60
Lime, dist., Mexican, crns. lb. 3.00 4.75
West Indian, cs. lb. 3.00 - 4.75
expressed, West Indian, crns lb. 7.00 - 8.00
terpeneless, bots lb. 29.50 -100.00
Linseed, raw, dms., c.l., N. Y. l.c.l. lb. .1665- —
tanks, f.o.b. Minneapolis lb. .1740- .1810
New York lb. .1370- —
tankwagon, New York lb. .1495- —
Boiled linseed oil, .006c. per lb. higher lb. .1525- —
Mace, dist., crns., dms. lb. 2.75 - 3.60
Mandarin (see Oil, tangerine).
Menhaden, crude, tanks, works, Atlantic Coast lb. .03½- —
Gulf ports, f.a.s lb. .08¾- —
Mineral, white (see Oil, white mineral).
Mirbane (see Nitrobenzene).
Mustard seed, nat., dms. lb. .18 - —
syn., bots lb. 1.60 - 1.85
Neatsfoot, 15° cold test, dms lb. .33 - .34
20° cold test, dms lb. .32 - .33
30° cold test, dms lb. .30 - .31
Neroli, NF, French, bots lb. 85.00 -310.00
Spanish, bots. lb. 32.50 -85.00
Nutmeg, USP, dist., East Indian, crns., dms lb. 3.10 - 4.50
West Indian, crns., dms lb. 3.00 - 3.60
Ocotea cymbarum, dms. lb. .87 - 1.50
Oiticica, liq., dms. lb. .15 - .15½
tanks lb. .13¾- .14
Oleo, extra, dms lb. .14½- .15

Oil, olibanum, bots lb. 5.50 - 7.65
extra fine, bots lb. 8.00 - 9.00
Olive, edible, Spanish, dms., duty paid gal. 2.40 - 2.45
Tunisian, same basis gal. 2.30 - 2.35
Orange, sweet, dist., crns lb. .50 - .80
expressed, USP, Brazilian, crns., dms lb. No stocks.
Calif., crns., dms. lb. .55 - 1.25
Florida, crns., dms lb. .50 - 1.25
Messina, crns. lb. 3.85 - 5.85
West Indian, crns., dms lb. 2.50 - 3.65
sesquiterpeneless, bots lb. 65.00 -120.00
Origanum, Spanish, crns lb. 1.75 - 2.85
Palm, clarit., dms lb. .13 - .13½
kernel, denat., tanks lb. .11½- —
Palmarosa, crns lb. 8.00 -10.00
Paraffin, pale, 100-110 vis., at 100° F, tanks, East Coast refy gal. .14 - —
Patchouli, dms. lb. 8.00 - 9.50
Peach kernel, USP (see Oil apricot kernel).
Peanut, crude, tanks, f.o.b. mills. lb. .17¼- —
refd., dms. lb. .23 - .23¼
tanks lb. .20½- —
Pennyroyal, USP imported, crns lb. 2.50 - 3.50
Peppermint, nat., dms. lb. 6.25 - 8.00
redist., USP, dms. lb. 6.55 - 9.00
Persic, USP (see Oil, apricot kernel).
Petitgrain, South American, crns., dms lb. 3.50 - 4.80
Pimento, berry, NF, dms lb. 4.20 - 6.00
leaf, crns. lb. 2.60 - 3.10
Pine, dest.-dist., dms., l.c.l., works. lb. .11¼- —
ex-whse. lb. .1325- —
steam dist., dms. ex whse., N.Y.C lb. .163 - —

Oil, pineneedle, Siberian (see Oil, abies siberica).
Rapeseed, tankcars lb. .15¾- —
Red (see acid, oleic)
Rice, bran, clarif., dms., l.c.l. lb. .13 - —
tanks, dlvd, E. lb. .14 - —
Rose, nat., Bulgarian, bots oz. 43.50 -62.25
Rosemary, Spanish, USP crns., dms lb. .60 1.00
tech., crns., dms lb. .50 .70
Rue, bots. lb. 2.00 2.50
Safflower, dms., c.l., Atl. coast lb. .1910 —
tanks, same basis lb. .1760 —
Sage, clary, bots lb. 18.50 -25.00
Dalmatian, crns. lb. 4.60 6.00
Spanish, crns. lb. 1.15 1.40
Sandalwood, NF, crns lb. 17.50 -18.75
Sardine, crude, tanks, Pac. coast. lb. .09 Nom.
Sassafras, artif., dms. lb. .85 - 1.25
nat., dom., USP, dms lb. 1.75 - 2.10
imp., Brazilian (see Oil ocotea cymbarum).
Savin, crns. lb. 2.75 - —
Savory, crns lb. 4.25 - —
Sesame, refd., dms lb. .36 .37
Shingle stain, tar distillate, dms., c.l., works gal. .35 - —
l.c.l., works gal. .44 - —
tanks, works gal. .23 - —
Snakeroot, Canada, crns lb. 27.50 -31.00
Soybean, crude, tanks, Decatur lb. .10½- —
foots (soapstocks), acid, 95% tanks N. Y. lb. .05¾- —
raw, 50%, tanks, N. Y. lb. .02 - —
refd., alkali, dms lb. .14¼- .14⅛
tanks lb. .12¾- —
claried, dms. lb. .13¾- .14
tanks lb. .12¾- —
salad, dms. lb. .14½- .14⅝
tanks lb. .13¼- —



As solvents, the NP's present an unusual combination of properties. They are medium-boiling, mild-odored, and have strong solvent power for a wide variety of substances, including many coating materials, waxes, resins, gums, dyes and numerous organic chemicals. They have thoroughly demonstrated their usefulness in the formulation of nitrocellulose, cellulose acetate, cellulose triacetate and cellulose acetate butyrate lacquers and adhesives. They have also found use in specialty products based on various vinyl-type resins.

CSC's new Nitroparaffin plant at Sterlington, La. is now in full production. Additional facilities for increased volume of NP derivatives are nearing completion.

8-PAGE TECHNICAL DATA SHEET AVAILABLE
Get your copy for full details, specifications, properties, uses, solubility tables, chemical reactions, and handling and storage. CSC's Market Development team is ready to work with you in applying these versatile chemicals to your products or processes. Samples of the four basic NP's and their derivatives available on request.

THE NITROPARAFFIN DERIVATIVES
ALKATERGES
AB (2-Amino-1-butanol)
AEPD (2-Amino-2-ethyl-1, 3-propanediol)
AMPD (2-Amino-2-methyl-1, 3-propanediol)
AMP (2-Amino-2-methyl-1-propanol)
NB (2-Nitro-1-butanol)
NEPD (2-Nitro-2-ethyl-1, 3-propanediol)
NMPD (2-Nitro-2-methyl-1, 3-propanediol)
NMP (2-Nitro-2-methyl-1-propanol)
TRIS AMINO (Tris [hydroxymethyl] aminomethane)
TRIS NITRO (Tris [hydroxymethyl] nitromethane)
HAS (Hydroxylammonium Acid Sulfate)
HC (Hydroxylammonium Chloride)
HS (Hydroxylammonium Sulfate)

COMMERCIAL SOLVENTS
260 MADISON AVENUE CORPORATION NEW YORK 16, N. Y.

Oil, Spearmint—Petrolatum

Oil, spearmint, USP, dms. lb. 4.75 - 5.60
Sperm, bleached winter, 45° dms. lb. .1725- .1750
tankcars lb. .1550- —
nat., winter, 45°, dms. lb. .1625- .1650
tankcars lb. .1450- —
Spruce, cns., dms lb. 2.10 - 2.75
Sweet birch, USP, Nortnern, cns. lb. 4.25 - 9.50
Southern, cns lb. 2.50 - 3.00
Tall, crude, dms., c.l., works lb. .03½- —
tanks, works lb. .02½- —
dist., dms., c.l., works lb. .07¼- —
l.c.l., works lb. .07¾- —
tanks, works lb. .06¼- —
refd., dms., c.l., works lb. .06½- .06¾
l.c.l., works lb. .06¾- .07¾
tanks, works lb. .05¼- .05¾
Tallow, acidless, dms lb. .13 - .14¾
Tangerine, Floridian, dms lb. 2.00 - 2.80
Tansy, dms lb. 7.50 - 9.40
Tar acid (See T's).
Pine, coml., dms., c.l., works lb. .528 - .538
l.c.l., works lb. .601 - —
whse. lb. .712 - —
tanks, works lb. .427 - .438
rectified, NF, drms., incl., l.c.l., works, South gal. 1.07 - —
ex whse., N. Y. C. gal. 1.15 - —
Theobroma (see Cocoa butter).
Thyme, NF, red, cns., dms. lb. 1.70 - 3.75
white, cns lb. 1.95 - 4.00
tech., white, cns lb. .40 - 1.85
Tung, dms., c.l., N. Y. lb. .27 - —
l.c.l., same basis lb. .27½- .27½
tanks, N. Y. lb. .25½- —
domestic mills lb. .24½- —
Turkey red (see Oil, castor, sulfonated).
Turpentine, NF, cns., dms. lb. .28 - .45
Vetiver, Bourbon, cns. lb. 13.00 -17.00
Haitian, cns. lb. 10.50 -17.50
Java, cns. lb. 22.50 -40.00
Oil, wheat, germ, 5-gal. dms. gal. 10.00 -13.00
White mineral, tech., 50-65 vis., non-ret. dms. c.l., t.o.b. N. Y. gal. .51½- .54½
65-75 vis., non-ret., dms., c.l., same basis gal. .52½- .55
l.c.l., same basis gal. .57½- .58½
80-90 vis., non-ret., dms., c.l., same basis gal. .53½- .56½
l.c.l., same basis gal. .58½- .59½
125-135 vis., non-ret., dms., c.l., same basis gal. .59½- .62½
l.c.l., same basis gal. .64½- .65½
145-155 vis., non-ret., dms., c.l., same basis gal. .66 - 68½
l.c.l., same basis gal. .71 - .71½
175-185 vis., non-ret. dms., c.l., same basis gal. .69½- .73
l.c.l., same basis gal. .74½- .75
USP, 200-210 vis., non-ret., dms., c.l., same basis gal. .73½- .75
l.c.l., same basis gal. .77½- .78
345-355 vis., non-ret. dms., c.l., same basis gal. .77 - .80
l.c.l., same basis gal. .83 - .85
Wintergreen, USP, nat., Northern, cns. lb. 6.35 -10.30
Southern, cns lb. 3.20 -19.50
synthetic (see Methyl salicylate).
Wood (see Oil, tung).
Wormseed, cns. lb. 3.75 - 5.00
Wormwood, cns. lb. 5.00 - 6.85
Ylang-ylang, Bourbon, bots. lb. 17.00 -30.00
extra, bots lb. 28.00 -40.00
Madagascar, bots. lb. No stocks
Oleostearine, bbls. lb. .10¾- .11
Opium, USP, cns lb. 19.20 -19.45
gran., USP, cns. lb. 21.65 -21.90
powd., USP, cns lb. 21.65 -21.90
Orange cadmium lithopone, bbls., frt. alld. E. of Rockies lb. 1.56 - —
Chrome, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss. R., include Davenport, Tenn., and E. of Minneapolis, Rock Island, St. Louis, St. Paul lb. .31 - —
Chrome orange prices are ½c. higher, dlvd. Ala., Fla., Ga., La. (Shreveport); 1½c. Miss., N. C., S. C., Tenn., Dallas and Ft. Worth, Tex., El Paso, Tex.; 2c. Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph; 1.6c. higher dlvd. r'ac. Coast for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.
Dinitroaniline toner lb. 1.30 - —
vis., non-ret., dms., c.l., same basis gal. .69½- .73
Mineral, American, obls., l.c.l., works lb. .2035- .2060
Molybdated, bbls. lb. .45 - —
o-Nitroaniline toner, kgs lb. 1.15 - —
Orange peel bitter, Haitian, bls lb. .14 - .16
sweet, bls lb. .16 - .18
Orris root, Florentine, bls lb. .45 - .50
powd., bbls., bxs lb. .50 - .53
Verona, bls lb. .35 - .40
powd., bbls., bxs lb. .40 - .45
Orthoaminobiphenyl (see o-Aminobiphenyl).
Orthoanisidin (see o-Anisidine).
Orthochloroanilin (see o-Chloroaniline).
Orthochlorobenzaldehyde (see o-Chlorobenzaldehyde).
Orthochloroparanitroanilin (see 2-Chloro-4-nitroaniline).
Orthochlorophenol (see o-Chlorophenol).
Orthocresol (see o-Cresol).
Orthodichlorobenzene (see o-Dichlorobenzene).
Orthonitroanilin (see o-Nitroaniline).
Orthonitrochlorobenzene (see o-Nitrochlorobenzene).
Orthonitrobiphenyl (see o-Nitrobiphenyl).
Orthonitroparachlorophenol (see 2-Nitro-4-chlorophenol).
Orthonitrophenol (see o-Nitrophenol).
Orthonitrotoluene (see o-Nitrotoluene).
Orthopehenetidin (see o-Phenetidine).
Orthophenylphenol (see o-Phenyl phenol).
Ortho-tertiary-amylphenol (see o-tert-Amylphenol).
Orthotolidin (see o-Tolidine base).
Orthotoluidin (see o-Toluidine).
Osage orange, cryst., No. 1, bbls., l.c.l lb. .40 - —
extract, liq., No. 1, bbls., l.c.l lb. .19 - —
Ouabain, USP, bots. gram. 3.00 - 4.00
Oxyquinolin sulfate, cns., 100-lb. lots, works lb. 4.75 - 5.00
smaller lots, works lb. 4.92 - 5.17

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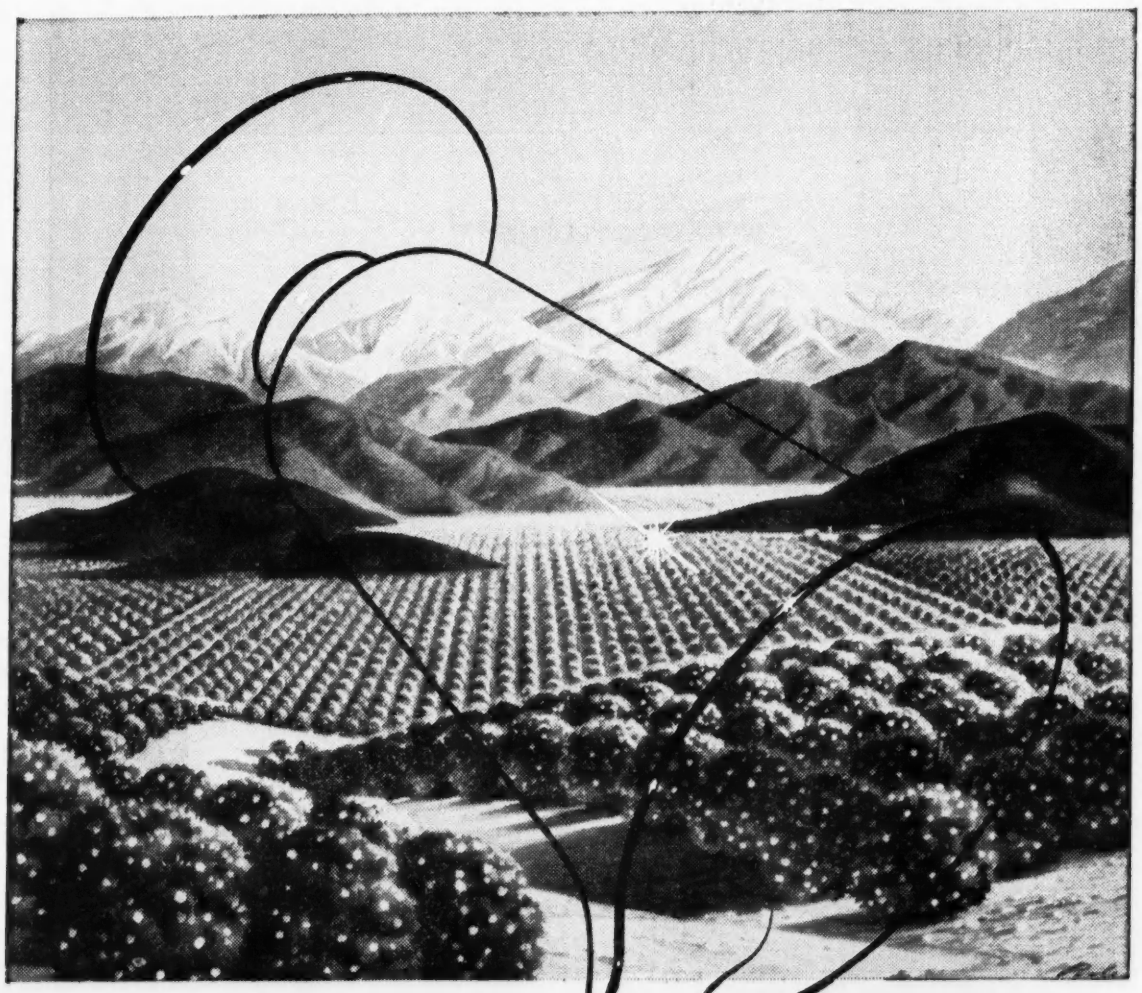
Pancreas substance, assay 1:75 bots., 5-lb. lots or more lb 4.00 - —
Pancreatin, USP bots lb. 1.90 - 2.10
Papain, USP, African, bots lb. 3.50 - 4.00
Ceylon lb. 3.00 - 3.50
Papaverine, nat. or syn. hydrochloride, USP, cns., 25-oz. to 100-oz. lots oz. 5.00 - —
smaller lots oz. 5.05 - 5.20
Sulfate, cns. oz. 7.10 - 7.35
Paprika, Roumanian, bgs. lb. .27 - —
Spanish, bgs. lb. .33 - .40
Yugoslavian, bgs. lb. .36 - —
Para-aminophenol (see p-Aminophenol).
Para-anisidin (see p-Anisidine).
Parachloranilin (see p-Chloroaniline).
Parachlorobenzaldehyde (see p-Chlorobenzaldehyde).
Parachloro-orthonitroanilin (see 4-Chloro-2 nitroaniline).
Parachlorophenol (see p-Chlorophenol).
Paracresol (see p-Cresol).
Paradibromobenzene (see p-Dibromobenzene).
Paradichlorobenzene (see p-Dichlorobenzene).
Paraffin, crude scale, white, 121°-123°F, ASTM, solid, c.l., refy lb. .0710- —
fully refd., 122°-124°F, ATSM, slabs loose, c.l., refy lb. .0845- —
125°-127°F, ASTM, slabs loose, c.l., refy lb. .0845- —
130°-132°F., ASTM, slabs loose, c.l., refy lb. .0855- —
132°-134°, ASTM, slabs, loose, c.l., refy lb. .0855- —
135°-137°F., ASTM, slabs loose, c.l., refy lb. .0855- —
Prices for paraffin in bags and ctns., c.l. 7/10c. per lb. higher; 1,000 to 9,999 lbs., 2.7c. per lb. higher and under 1,000 lbs. 3.7c. per lb. higher.
AMP temperatures are an arbitrary 3°F. higher than ASTM.
Paraformaldehyde, 91%, flake, bgs., c.l., frt. alld lb. .1075- —
l.c.l., frt. alld lb. .1275- .1375
powd., bgs., c.l., frt. alld lb. .13½- —
l.c.l., frt. alld lb. .17 - —
USP X, fib. dms., c.l. lb. .183 - —
1,000-lb. lots lb. .193 - —
smaller lots lb. .208 - —
Paraldehyde, tech., 98%, 55-gal. dms., c.l. works lb. .13½- —
l.c.l., works lb. .14½- —
tanks, works lb. .11½- —
Paranitroaniiin (see p-Nitroaniline).
Paranitrochlorobenzene (see p-Nitrochlorobenzene).
Paranitrophenol (see p-Nitrophenol).
Paranitrotoluene (see p-Nitrotoluene).
Paraphenetidin (see p-Phenetidine).
Paraphenylenediamine (see p-Phenylenediamine).
Paraphenylphenol (see p-Phenylphenol).
Para-tertiary-amylphenol (see p-tert-Amylphenol).
Para-tertiary butylphenol (see p-tert-Butylphenol).
Parathion, spray powder, 15% dealers, dms., works lb. .50 - .53
tech., dms., c.l., t.l., works lb. 1.3395- —
l.c.l., works lb. 1.51 —
Paratoluenesulphonamide (see p-Toluenesulfonamide).
Paratoluidine (see p-Toluidine).
Paris green, dealer, distributor, dms., c.l., works, frt. alld. on 96 lbs. or over lb. .36 - .40
l.c.l., same basis lb. .37 - .53
Passion flower herb, bls. lb .20 - .21
Peanut meal, 45%, old process, bgs., mills ton 78.00 Nom.
Pectin, citrus, NF, powd., bbls. lb. 2.05 - 2.06
tech., powd., bbls. lb. 1.50 - —
imported, Danish, ex whse. lb. 1.28 - —
Penicillin, crystalline, potassium, sterile, bulk, 1,000,000 units. .03½- .04
Procaine bulk 1,000,000 units. .03½- .04
Sodium, sterile, bulk, 1,000,000 units. .03½- .04
Pentachlorophenol, dms., c.l., t.l., works, frt. equald lb. .21 - —
l.c.l., same basis lb. .22½- .29
Pentaerythritol, tech., bgs., c.l., works lb. .32 - —
l.c.l., works lb. .33 - —
Di- and tri-isomers (see Dipentaerythritol and Tripentaerythritol).
Pentane, industrial, tanks, Tex. refy gal. .14½- —
Pepper, black, Malabar, spot, bgs. lb. .39 - —
red, Gondar, spot, bgs lb. .28 - .30
Japanese, hontaka, bgs lb. .32 - .33
birdseyes, bgs., new crop lb. .50 - —
Mombasa, bgs., shipt. lb. .72 - —
Nigerian, bgs. lb. .29 - —
Turkish, bgs. lb. .23 - .24
white, bgs. lb. .50 - —
Peppermint leaves, USP, dom., bls., dms lb. .70 - .75
imp., bls. lb. 1.10 - —
Pepsin, NF, 1:3,000 bulk lb. 3.45 - 3.50
Perchloroethylene, dms., c.l., or truckloads, dlvd. E lb. .12½- —
l.c.l., dlvd. E lb. .14 - —
tank trucks, 1,000 gal. min., dlvd. E lb. .11½- —
tanks, dlvd E lb. .11 - —
dlvd. W. lb. .11½- —
Peru balsam, dms. lb. 1.50 - 1.75
Petrolatum, amber, dms., c.l., refy. lb. .05 - .05½
l.c.l., dlvd. lb. .06¾- .07
tanks, refy. lb. .03¼- .04½
cream, dms., c.l., refy. lb. .06⅛- .07⅛
l.c.l., dlvd. lb. .08½- .08¾
tanks, refy. lb. .04⅜- .05⅜
extra amber, dms., c.l., refy. lb. .05¼- .05⅝
l.c.l., dlvd. lb. .07 - .07¼
tanks, refy. lb. .03½- .04⅜
USP, white, lily, dms., c.l., refy. lb. .06⅝- .07¼
l.c.l., dlvd. lb. .08⅜- .09⅛
tanks, refy. lb. .04⅞- .06
snow, dms., c.l., refy. lb. .07½- .07¾
l.c.l., dlvd. lb. .09⅜- .09⅝
tanks, refy. lb. .05⅜- .05⅝
soft, dms., c.l., refy. lb. .06¾- .07¾
l.c.l., dlvd. lb. .08½- .08¾
tanks, refy. lb. .05 - .05⅜
yellow, soft, dms., c.l., refy. lb. .05¼- .05¾
l.c.l., dlvd. lb. .06⅜- .07⅛
tanks, refy. lb. .03½- .05⅛



Oranges are not all alike...

There are as many different varieties of oranges as there are apples. They differ in physical appearance, juice character, peel flavor and in the many constituents which make up the component parts of the fruit. Many oranges that may be comparable in some characteristics may differ widely in others and, in some respects, one may be three or four times as potent as the other.

That is why Exchange Brand California Oil of Orange is the standard the world over for orange flavor excellence. You not only get the benefit of Exchange experience, technical skills and vast fruit resources, but Exchange Brand Oil of Orange is made only from California oranges with peel oil that is far richer in flavor strength and more intense in the aromatic constituents which are universally accepted as true orange flavor.

The cost of flavor is so small, why risk the quality of your product for penny economy? Protect its valuable reputation with the consistent quality and distinctive California feature of Exchange Brand Oil of Orange.

Sunkist Growers

PRODUCTS DEPARTMENT · ONTARIO, CALIFORNIA • *Produced by* The Exchange Orange Products Co. · Ontario, California

Distributed in the U.S. exclusively by

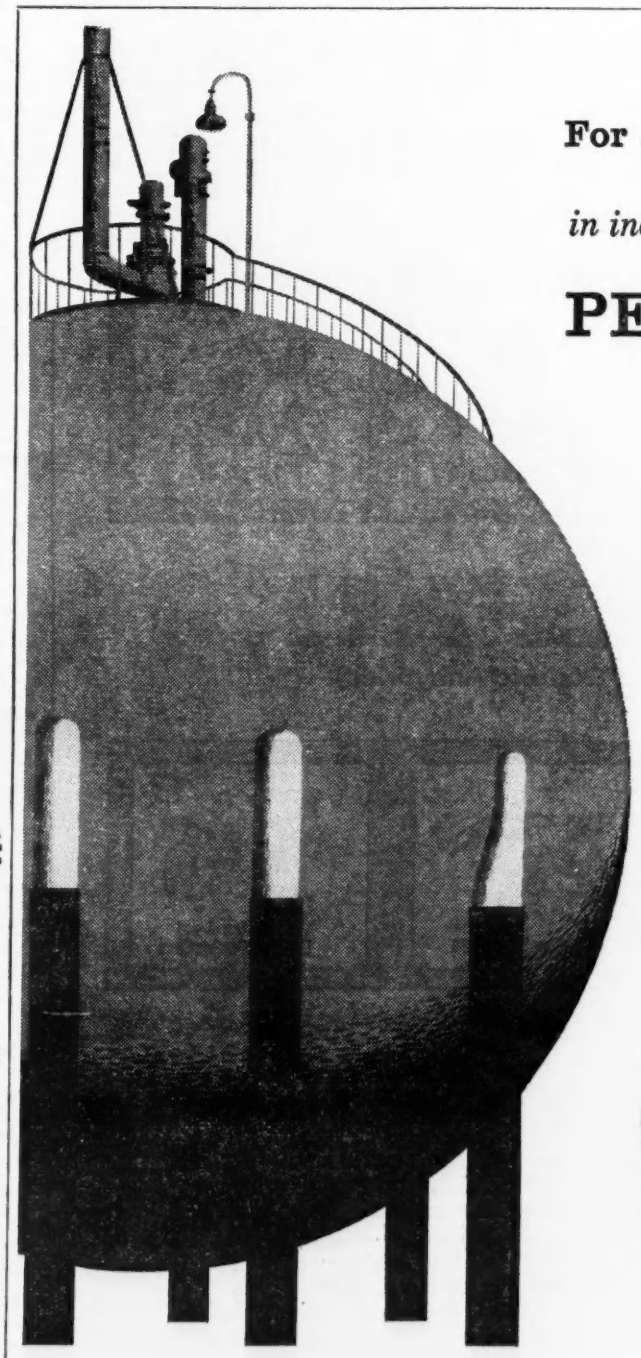
DODGE & OLCOTT, INC., 180 Varick St., New York 14, N.Y. · FRITZSCHE BROTHERS, INC., 76 Ninth Ave., New York 11, N.Y.

Petroleum, lacquer diluent, 150°-240°F., b.r., tanks, West Coast, ex tax, Los Angeles, gal. .169 - .204
East coast, N. J., N. Y gal. .19 —
Group 3, benzol-type gal. .14125- .14625
toluol-type gal. .13125- .13375
Mineral spirits, reg., tanks, California, ex tax, San Francisco gal. .164 - —
East coast, N. J., N. Y. gal. .17 - —
Group 3 gal. .11875- —
tankwagon, Boston gal. .19 - —
Buffalo gal. .195 - —
Chicago gal. .279 - —
Cleveland gal. .22 - —
Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .185 - —
Pittsburgh gal. .18 - —
Providence gal. .195 - —
odorless, tanks, refy., Watson, Cal gal. .245 - —
Borger, Tex gal. .24 - —
Houston, Tex gal. .24 - —
Wood River, Ill gal. .2625- —
dlvd. N. J gal. .32 - —
dlvd N. Y gal. .33½- —
tankwagon, N. J., dlvd gal. .36 - —
N. Y., dlvd gal. .37 - —
Naphtha, cleaners, tanks, East Coast, N. J. and N. Y. gal. .17 - —
Group 3 gal. .12875- —
tankwagon, Newark gal. .16 - —
New York gal. .18 - —
Philadelphia gal. .165 - —
High solvency (see Petroleum sovent, partial aromatic)
VM&P, 225°-300°F, b.r., tanks, West Coast, Los Angeles, gal. .169 - —
Portland, Ore gal. .175 - —
San Francisco gal. .174 - —
Seattle, Wash gal. .175 - —
East Coast, N. J., N. Y. gal. .18 - —
Group 3 gal. .12875- —
tankwagon, Boston gal. .205 - —
Chicago gal. .289 - —
Cleveland gal. .23 - —
Newark gal. .195 - —
New York gal. .195 - —
Philadelphia gal. .20 - —
Pittsburgh gal. .19 - —
Solvent, partial aromatic, tanks, 205°-282°F, b.r., 41°C., m.a.p., N. Y., N. J gal. .245 - —
212°-278°F. b.r., 43°C. m.a.p., N. J gal. .26 - —
212°-284°F. b.r., 19°C. m.a.p., N. J gal. .29 - —
224°-280°F. b.r., 48°C. m.a.p., Houston gal. .215 - —
273°-361°F. b.r., 29°C. m.a.p., N. J gal. .29 - —
282°-325°F. b.r., 41.5°C. m.a.p, Houston gal. .25 - —
287°-386°F., b.r., 31°C., m.a.p., N. J. gal. .29 - —
310°-344°F., b.r., 13.5°C. m.a.p., Texas City gal. .33 - —
310°-348°F. b.r., 17°C., m.a.p., N. Y., N. J. gal. .35 - —
320°-360°F. b.r., 16°C. m.a.p., N. Y., N. J. gal. .33 - —
324°-349°F., 37°C. m.a.p., Houston gal. .33 - —
341°-390°F., b.r., 35°C., m.a.p., N. J gal. .27 - —
352°-413°F, b.r., 30°C, m.a.p., Houston gal. .33 - —
352°-410°F. b.r., 16.5°C. m.a.p., Texas City gal. .33 - —
358°-401°F., b.r., 25°C. m.a.p., N. Y., N. J gal. .39 - —
364°-404°F. b.r., 19°C. m.a.p., N. Y., N. J gal. .425 - —
367°-418°F. b.r., 19.6°C. m.a.p., N. Y., N. J gal. .33 - —
rubber, tanks, Cal., ex tax, San Francisco gal. .173 - —
East Coast, N. J., N. Y. gal. .18 - —
Group 3 gal. .12875- —
Stoddard, tanks, East Coast, N. J., N. Y gal. .17 - —
Group 3 gal. .12375- —
Pennsylvania, western gal. .15 - —
Boston gal. .19 - —
Chicago gal. .289 - —
Cleveland gal. .22 - —
Los Angeles, ex tax gal. .194 - —
Newark gal. .18 - —
New York gal. .18 - —
Philadelphia gal. .185 - —
Pittsburgh gal. .18 - —
Sulfonate, oil soluble, 60-62% sulfonic content, non-ret., ret., dms., c.l., works lb. .16 - .18¼
l.c.l. works lb. .17 - .18½
tanks, works lb. .14 - .16½
50-55% sulfonic content, non-ret. dms., c.l., works lb. .15½- —
l.c.l., works lb. .16½- —
tanks, works lb. .12½- —
o-Phenetidine, dms., works lb. 1.00 - —
p-Phenetidine, dms., works lb. 1.00 - —
Phenobarbital, USP, dms., 100-lb. lots lb. 3.50 - —
Phenobarbital-sodium, USP, dms., 100-lb. lots lb. 3.50 - —
Phenol, 90-92% (cresol 8-10%), non-ret. dms. c.l., frt. alld. E. of Rockies lb. .15¾- .16¾
l.c.l., same basis lb. .16½- .17½
tanks, same basis lb. .14 - .15
82-84% (cresol 16-18%), non-ret. drums, c.l., same basis lb. .15¼- .16¼
l.c.l., same basis lb. .16 - .17
tanks, same basis lb. .13½- .14½
39° or above, tar distilled, non-ret. dms., c.l., same basis lb. .17¼- .17¾
l.c.l., same basis lb. .18 - .18½
tanks, same basis lb. .15½- —
USP, syn., dms., c.l., frt. alld. lb. .17¾- .18¼
1,000-lb. lots or more, same basis lb. .18½- .19½
less than 1,000-lb. lots, same basis lb. .19½- .20½
tanks, same basis lb. .16 - .17
Phenolphthalein, USP or yellow, bbls., dms., 2,000-lb. lots. lb. 1.10 - —
smaller lots lb. 1.12 - 1.17
Phenothiazine, NF, fib. dms., c.l., frt. adjusted lb. .39 - —
over 2,100 lbs., same basis lb. .41 - —
less than 2,100 lbs., same basis. lb. .43 - —
Phenyl acetate, dms., 100-lb. lots, works lb. .50 - —
Salicylate (see Salol.)
Phenylacetaldehyde, soln., 50%, bots lb. 2.40 - 2.70
100%, bots lb. 6.00 - 6.65
Phenylacetamide, 125-lb. dms., works lb. 1.10 - —
smaller dms., works lb. 1.15 - 1.10
dl-Phenylalanine, dms., works lb. 27.00 -37.50
1-Phenyl-3-carbethoxy pyrazolone-5, 250-lb. fib. drms., dlvd. E lb. 3.60 - —
smaller dms., dlvd. E lb. 4.00 - —
Phenyldiethanolamine dms., c.l., dlvd. E lb. .40½- —
l.c.l., dlvd. E lb. .41½- —
tanks, dlvd. E lb. .38½- —

m-Phenylenediamine, dms., frt. alld. lb. .90 —
o-Phenylenediamine, coml., 100 to 1,000 lbs., fib. dms., works lb. 1.70 1.80
p-Phenylenediamine, redist., dms., works lb. 2.00 —
tech., refd., dms., same basis lb. 1.10 - 1.35
Phenylethanolamine, dms., c.l., works lb. .75½- —
l.c.l., same basis lb. .76 - —
Phenylethyl acetate, bots lb. 1.30 - —
b-Phenylethylamine, dms., 1,000-lb. lots, works lb. 1.10 —
smaller lots, works lb. 1.15 1.40
Phenylhydrazine base, CP, bots lb. 3.00 3.07
Hydrochloride, coml., kgs., works. lb 1.75 —
purif., bots., works lb. 5.17 —
1-Phenyl-3-methyl pyrazolone-5, 250-lb lots, dlvd. E lb. 1.70 - —
smaller lots, dlvd lb. 2.00 —
Phenylethylphenyl acetate, bots lb 3.95 4.40
o-Phenylphenol, dms., l.c.l., works lb. 42 44
p-Phenylphenol, bgs., c.l., works lb. .35 —
l.c.l., works lb. .39½- —
Phloroglucinol, coml., fib. dms., works lb. 6.40 —
C.P., bots., works lb. 17.75 - —
tech., fib. dms. works lb 10.45 - —
Phosphate, defluorinated (see under D) Rock, Curacao, Atlantic ports, New Orleans ton. 43.00 —
Florida, land pebble, run-of-mine, washed, dried underground, bulk, c.l., mines, 68-66%, b.p.l., bulk, c.l., mines long-ton. 4.82 - 5.06
70-68%, b.p.l., c.l., same basis long-ton. 5.22 5.46

Phosphate rock, Florida, land pebble, run-of-mine, washed, dried underground, bulk, c.l., mines, 72-70% b.p.l., c.l., same basis long-ton 5.87 - 6.11
75-74% b.p.l., c.l., same basis long-ton. 6.87 - 7.11
78-76%, b.p.l., c.l., same basis long-ton. 7.87 - 8.11
The above prices are based on fuel oil at $2.35 per bbl. and labor at $1.31.
Phosphorus, amorph., red, dms., t.l., works lb. .43 - —
smaller lots, works lb. .44 - .45
white (yellow), solid, dms., c.l., works, frt. equald lb. .20 .20½
l.c.l., works, frt. equald. lb. .21½- —
tanks, works, frt. equald. lb. .19 - —
Oxychloride, dms., c.l., works. lb. .14 - —
l.c.l., works lb. .15 - —
tanks, works lb. .12½- —
Pentasulfide, solid, dms., c.l., works lb. .11½- —
l.c.l., works lb. .12½- —
Pentoxide, dms., c.l., works lb. .13½- —
l.c.l. works lb. .16½- —
Sesquisulfide, tins, cs., works lb. .29 - —
export, dms lb. .31 .36
Trichloride, dms., c.l., works lb. .14 - —
l.c.l., works lb. .15 - —
tankcars, works lb. .12½- —
Phthalic anhydride, ogs, c.l., works, frt. equald lb. .20 - —
l.c.l. same basis lb. .21 - —
tanks, same basis lb. .19¼- —
Phthalimide, 97%-98% dms., works, frt. alld lb. .65 .70

Phthalylsulfacetamide, 1,000-lb. lots or more lb. 5.00 —
a-Picoline, ret. dms., c.l., works, frt. equald lb. 43 43½
l.c.l., works, frt. equald lb. 44 —
tanks, same basis lb. 415 422
b,g-Picoline, 5° dms., c.l., works. lb. 32½ —
l.c.l., works lb 33 —
g-Picoline, 98%, dms., c.l., works lb 2.65 —
Pilocarpine hydrochloride, USP, bots oz 5.25 —
Nitrate, USP, bots, vials oz 4.80 4.90
Pimento, Jamaican, bgs. lb. .85 - —
Mexican, bgs. lb. .09 - —
Pink root, bls. lb 3.00 4.25
d-Piperazine hexahydrate, French Codex, bots kilo 8.00 8.50
Piperidine, dist., dms. frt. equald. lb 2.60 2.70
Piperonyl butoxide, dms., dlvd E lb 4.50 5.05
Cyclonene, dms., dlvd. E lb 3.70 4.25
Pitch, coaltar, 150°-170°F. m.p., tanks, works ton 37.00 - —
Cottonseed, raw, dms. works lb 02¼ 03
Linseed dms lb 03 Nom.
Marine, dms. lb 04¼ 05
Petroleum (see Asphalt, petroleum)
Soybean dms. works lb 03 Nom.
Tall, dms., works lb 03¾ 04¼
Plaster of Paris (see Gypsum).
Platinum metal, works oz. 90.00 -94.00
Pleurisy root, bls lb 45 50
Podophyllum resin, NF, dms lb. 14.25 - —
Poke root, bls lb 19 22



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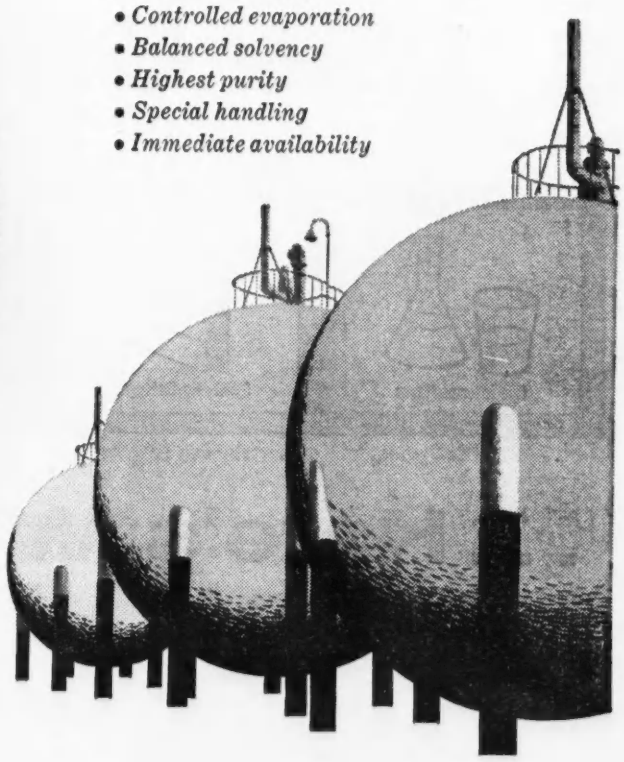

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Polmyxin—Quercitron Extract

Polymyxin, bulk, bots., dms., 50 billion units or more, 1,000,000 units. .52 - —
25-50 billion units 1,000,000 units. .54 - —
1-25 billion units 1,000,000 units. .56 - —
Polyoxyethylene sorbitan monostearate, dms., 20,000-lb. lots, works lb. .41 - —
10,000-20,000-lb. lots, works, lb. .43 - —
smaller lots, works lb. .46 - .48
tristearate, dms., 20,000-lb. lots, works lb. .41 - —
10,000-20,000 lb. lots, works, lb. .43 - —
smaller lots, works lb. .46 - .48
Poppy seed, Argentine, bgs. lb. .17½- —
Dutch, bgs. lb. .21½- —
Iranian, bgs. lb. .15 - —
Polish, bgs. lb. .19½- —
Turkish, bgs. lb. No prices.
Potash, caustic, reg., flake, 88-92%, dms., c.l., works 100 lbs. 9.15 -
l.c.l., works 100 lbs. 10.20 - —
liq., 45% basis, dms., c.l., works 100 lbs. 4.25 - —
l.c.l., same basis 100 lbs. 5.05 - —
tanks, same basis 100 lbs. 3.70 - —
solid, 88-92%, dms., c.l., works. 100 lbs. 8.70 - —
l.c.l., works 100 lbs. 9.75 - —
Potassium acetate, NF, dms lb. .31 - .36
Bicarbonate, USP, gran., dms. lb. .22 - —
powd. dms lb. .24 - —
Bichromate, bgs., c.l., works lb. .16½- —
l.c.l., works lb. .17 - —
Potassium bichromate in dms 2½c. higher.

Potassium bitartrate, NF, dom., gran., or powd., bbls., 5,000 lbs., 1 shipt. lb. .36½- —
dms., c.l. lb. .36 - —
smaller lots lb. .37 - .40
imp., kgs. lb. .27¾- .28
Bromate, dms., 1,000 lbs. or more, lb. .47 - —
25-200-lb. lots lb. .57 - .62
Bromide, USP, gran., bbls., kgs. lb. .36 - —
Carbonate, N.F., gram., bbls., dms lb. .20 - —
powd., bbls., dms lb. .21 - .22
tech., calcined, bbls., c.l., works, 100 lbs. 9.00 - —
l.c.l., same basis 100 lbs. 10.05 - —
hydrated, 83-85%, bbls., c.l., works 100 lbs. 7.60 - —
l.c.l., works 100 lbs. 8.65 - —
Chlorate, cryst., dms., c.l., works lb. .10¼- —
l.c.l., works lb. .11½- .12
powd., dms., c.l., works lb. .10¾- —
l.c.l., works lb. .12 - .12½
export, dms., New York lb. .12¾- .13½
NF, gran., 25-lb. metal dms lb. .35 - —
Chloride, USP, cryst., dms. lb. .21 - .23
gran., dms lb. .15 - .17
powd., dms lb. .24 - .26
Chromate, tech., bgs lb. .50 - .50½
Citrate, USP gran., dms lb. .41 - —
powd., dms lb. .40½- .41½
Cyanide, dms., 20,000-lb. lots or more, works lb. .45 - —
2,000-19,999-lb. lots, works lb. .455 - —
smaller lots, works lb. .465 - —
Dichromate (see Potassium bichromate).
Ferricyanide, drums, ton lots lb. .50 - —
Ferrocyanide, bgs., ton lots lb. .22½- —
smaller lots lb. .23 - —

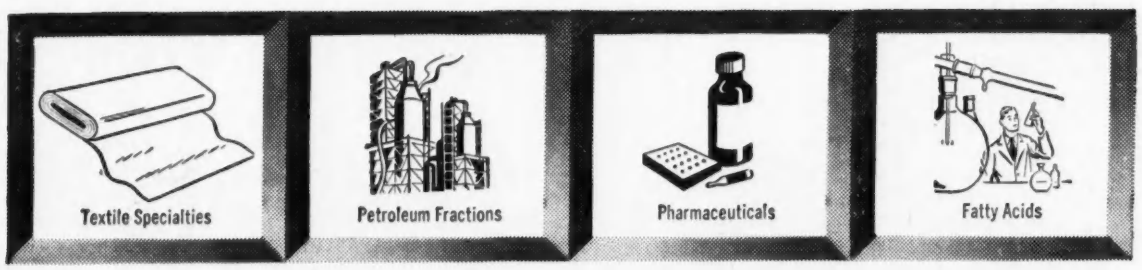
Potassium fluoborate, fib. dms., c.l., works lb. .30 - —
l.c.l., works lb. .31 - —
Fluoride, dms., works lb. .37 - .38
Gluconate, dms lb. .75 - .79
Guaiacolsulfonate, NF, dms lb 2.10 - 2.30
Hydroxide, tech. (see Potash caustic).
USP, pellets 100-lb. dms. 1 to 100-dm. lots lb. .28½- .33
Hypophosphite, NF, fib. dms., ton lots or less lb. 1.06 - 1.03
Iodide, dms. lb. 1.90 - 1.95
Manure salt, 22% K_2O, base price, unit-ton. .17 - .1765
July forward unit-ton. .38 - —
Metabisulfite, gran. dms lb. .20 - .21
powd. dms lb. .25 - —
Muriate, 59-63% K_2O, bulk, c.l., works, base price unit-ton. .36 - —
July forward unit-on. .38 - —
bgs., c.l., works, base price, ton.26.00 - —
July forward ton.27.20 - —
Nitrate, cryst., bbls., 20-ton lots, 100 lbs.14.40 - —
smaller lots 100 lbs.14.65 -14.90
gran., bbls., 20-ton lots.100 lbs. 9.75 - —
smaller lots 100 lbs.11.10 -11.50
powd., bbls., 20-ton lots.100 lbs.10.75 - —
smaller lots 100 lbs.12.00 -12.50
USP, gran., dms. lb. .18 - —
Potassium nitrate in bags, 50c. per 100 lbs. less in kegs, $1 more.
Oxalate, neutral, tech., fine gran., bbls., dms. lb. .30 - .32
Pentaborate, gran., bgs., c.l., works ton.191.50 - —
dms., ton lots, ex whs ton.198.00 - —
smaller lots, ex whse ton.302.50 - —
Powdered Potassium pentoborate, $10.25 per ton higher
Perchlorate, dms., c.l., works lb. .15 - —
l.c.l., works lb. .16½- —

Potassium permanganate, cml., dms., works lb. .23½- .26½
USP, dms., works lb. .26½- .28
Persulfate, dms., 5-ton lots, works. lb. .18 - —
1-ton lots, works lb. .20 - —
Phosphate, tetrabasic, bbls., works lb. .16½- .18½
Prussiate, red (see Potassium Ferricyanide).
yellow (see Potassium Ferrocyanide).
Silicate, glass, bgs., c.l., works 100 lbs.17.00 -17.30
l.c.l. 100 lbs.17.80 —
soln., clarif., 29° Be, 1:2.5, dms., c.l., works 100 lbs. 5.80 - —
l.c.l., 5 dms., or more, works 100 lbs. 6.55 - 6.95
tanks, works 100 lbs 5.45 - —
electrical grade, 29° Be, 1:2.0 dms., c.l., works 100 lbs. 6.50 - —
l.c.l., 5 dms. or more, works 100 lbs. 7.25 - 7.65
tanks, works 100 lbs. 6.15 - —
40.5° Be, 1:2.1, dms., c.l., works 100 lbs. 6.45 - —
l.c.l., 5 dms or more, works 100 lbs. 7.20 - 7.60
Silicofluoride, bbls., works lb. .099 - .1040
Stannate, dms., frt. alld. E lb. .693 - .739
Sulfate, agricultural, 50% K_2O, bulk, works, base price, unit-ton. .64 - —
July forward unit-ton. .67 - —
NF VII cryst. dms lb. .31 - .33
gran. dms. lb. .18½- —
powder dms lb. .16½- .17
Sulfocyanide, NF, cryst., (see Potassium thiocyanide).
Thiocyanate, NF, cryst., dms lb. .84 - .94
tech., works lb. .77 - .79
Titanate, ctrs., c.l., works lb. .14 - —
5-ton lots, works lb. .14½- —
1-ton lot or less works lb. .14¾- —
Toluene sulfonate, dms., c.l. or tl. works lb. .42 - —
l.c.l., works lb. .46 - —
Potassium-magnesium sulfate, bulk, works basis 40% K_2SO_4, 18% MgO, base price ton.13.45 - —
July forward ton.14.00 - —
Potassium-sodium tartrate, NF gran., powd., dms., c.l. lb. .36½- —
5,000-lb. lots lb. .37 - —
smaller lots lb. .37½- .42½
Potassium-titanium fluoride, fib. dms., works lb. .39 - .40
Potassium-zirconium fluoride, fib. dms., c.l., works lb. .50 - —
l.c.l., works lb. .52½- .55
Pregnenolone, bots. gram. .45 - —
Acetate, bots gram. .40 - —
Procaine hydrochloride, USP, dms., 1,000-lb. lots, frt. alld lb. 2.90 - —
100-lb. lots lb. 3.00 - 3.60
Progesterone, USP, bots., 100 gram lots gram. .50 - —
Acetate, bots gram. .70 - —
Propane, indust., tanks, group 3, gal. .02½- —
N. Y. Harbor gal. .07¼- —
n-Propyl acetate, dms., c.l., dlvd. lb. .12¾- —
l.c.l., dlvd. lb. .13¾- —
tanks, dlvd. lb. .1075- —
Gallate, dms., 100 to 2,000-lb. lots works lb 3.90 - 4.40
p-Hydroxybenzoate, USP, dms. lb. 2.30 - 2.40
Thiouracil bots., 50-kilo lots or more kilo.55.00 - —
smaller lots kilo.53.10 -55.30
Propylene dichloride, dms., c.l., dlvd. E lb. .0825- —
l.c.l., same basis lb. .095 - —
tanks, same basis lb. .07 - —
Prices in West 1c. higher dlvd. on same basis.
Glycol, indust., dms., c.l., dlvd. E lb. .15½- —
l.c.l., same basis lb. .16½- —
tanks, same basis lb. .13½- —
USP, dms., c.l., dlvd. E lb. .17½- —
l.c.l., same basis lb. .18½- —
tanks, same basis lb. .15½- —
Methyl ether, dms., c.l., dlvd. lb. .20 - —
l.c.l., same basis lb. .21 - —
tanks, same basis lb. .18½- —
Oxide, dms., c.l., dlvd. E lb. .17½- —
l.c.l., dlvd. E lb. .18½- —
tanks, dlvd. E. lb. .15½- —
Psyllium seed, black, bgs. lb. .55 - —
blonde, bgs. lb. .18 - —
husks, bgs. lb. .40 - —
Pumice, dom., grd., coarse to fine, 0, ½, 1, 1½, 2, 3, bgs., ton lots. lb. .03⅝- .04¼
smaller lots lb. .03⅞- .04½
Imp., Italian, silk-screen, coarse, bgs., ton lots. lb. .06½- —
fine, bgs., ton lots lb. .04 - —
sun dried, coarse, bgs ton. lots lb. .02½- .04
fine, bgs., ton lots lb. .02½- .04
Pumpkin seed, bgs lb. .25 - .26
Pyrethrin, syn., (see Allethrin).
Pyrethrum flowers, fine grd., 0.9% pyrethrins, bbls., works lb. .45 - —
powd., 1.3% pyrethrins, bbls., works lb. .65 - —
liq. 20/1 basis (2 grams pyrethrins per 100cc odorless base), dms., works gal. 8.35 - 8.55
100/1 basis (10 grams pyrethrins per 100cc odorless base), dms., works gal.41.75 -42.75
oleoresin, dewaxed, 20%, dms., works lb. 9.80 - 9.90
purif., 20% dms., works lb.10.00 -10.10
Pyridine, denaturing, dms., c.l., works and frt. equald gal. 2.77 - —
l.c.l., same basis gal. 2.80 - —
refd., 2°, non-ret. dms., l.c.l., same basis lb. .75 - —
Pyridoxine hydrochloride, bots., 100-gram lots gram. .46 - —
Pyrites, Canadian works long-ton. 3.00 - 3.00
Pyrocatechol (see Catechol).
Pyrogallol, NF, dms. lb. 3.27 - 3.30
Pyroxylin, scrap, ungrd., amber, dms., works lb. .20 - —
black, dms., works lb. .12 - —
mixed, mottled, dms., works lb. .13 - —
shavings, amber, cs., works lb. No stocks.
mixed colors, dms., works lb. .11 - —
white, china, ivory, dms., works lb. .16 - —
dense, opaque, dms., works, lb. .12 - .15
translucent pastels, cs., works, lb. .14 - —
transparent colorless, dms., works lb. .25 - —
colors, dms., works lb. .15 - —
USP, bots. lb. 9.50 - —

Q

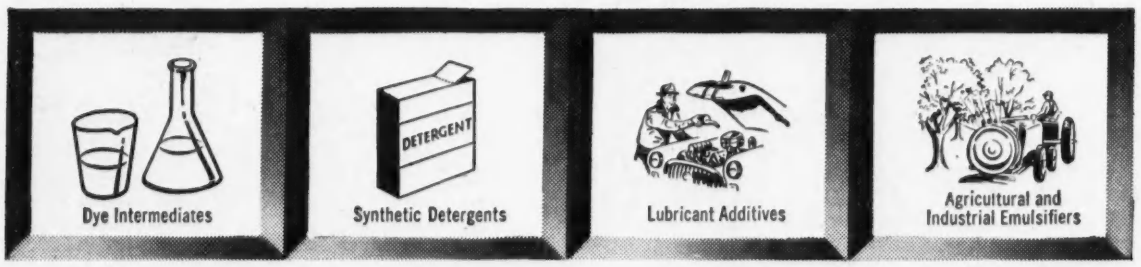
Quassia chips lb. .17 - —
Quebracho extract, clarif., grd., 70% tannin, bgs., c.l., lb. .16½- .16¾
liq., 35% tannin, bbls., works, lb. .08¼- —
solid, clarif., 64% tannin, bgs., c.l., ex-dock, duty extra, lb. .12 23/64- —
ord., 63% tannin, bgs., c.l., same basis lb. .11 21/32- —
Quercitron extract, cryst., No. 1, bbls., l.c.l. lb. .40 - —
liq., No. 1, bbls., l.c.l. lb. .19 - —

FOR SULFONATIONS SULFATIONS



Use SULFAN®

(Stabilized Sulfuric Anhydride)



. . . Here's Why!

You Improve Sulfonation Efficiency. SULFAN has 99.5% SO_3 available for sulfonation reactions. In many applications, this means considerable savings in operating costs because SULFAN offers nine times as much usable SO_3 as 100% sulfuric acid, and over three times as much as 20% oleum.

You Increase Batch Sizes. With SULFAN, there is no waste acid. This means larger batch sizes (or more rapid through-put) . . . often double without increasing size of equipment! Since no water is formed when SULFAN is used for sulfonation, the waste acid problem inherent with sulfuric acid or oleum is also eliminated.

Benefits of operating efficiency, ease of handling and waste acid elimination make SULFAN worth your prompt investigation. Write today for technical information. A letter outlining your specific needs will enable us to supply data of value to you. As always, information regarding your process will be held in strict confidence.

Product Development Department

GENERAL CHEMICAL DIVISION

ALLIED CHEMICAL & DYE CORPORATION

40 Rector Street, New York 6, N. Y.

Allied Chemical

Basic Chemicals for American Industry

Quicksilver (see Mercury metal).
Quince seed, bgs ..... lb. 2.00 Nom.
Quinidine sulfate, USP, cns., 100-oz. lots oz. .87 - —
Quinine, NF, cns., 100-oz. lots oz. .54 - —
Bisulfate, USP, cns., 100-oz. lots oz. .37½- —
Ethylcarbonate, NF, cns., 100-oz. lots oz. .63½- —
Hydrobromide NF cns. 50-oz cns. oz. .47½- —
Sulfate, USP, cns., 100-oz. lots oz. .42 - —
Quinine and Urea hydrochloride, NF, cns oz. .56 - —
Quinoline, dms., c.l., frt. equald lb. .50¾- —
l.c.l., same basis ..... lb. .51¼- —
tanks, same basis ..... lb 50 - —

R

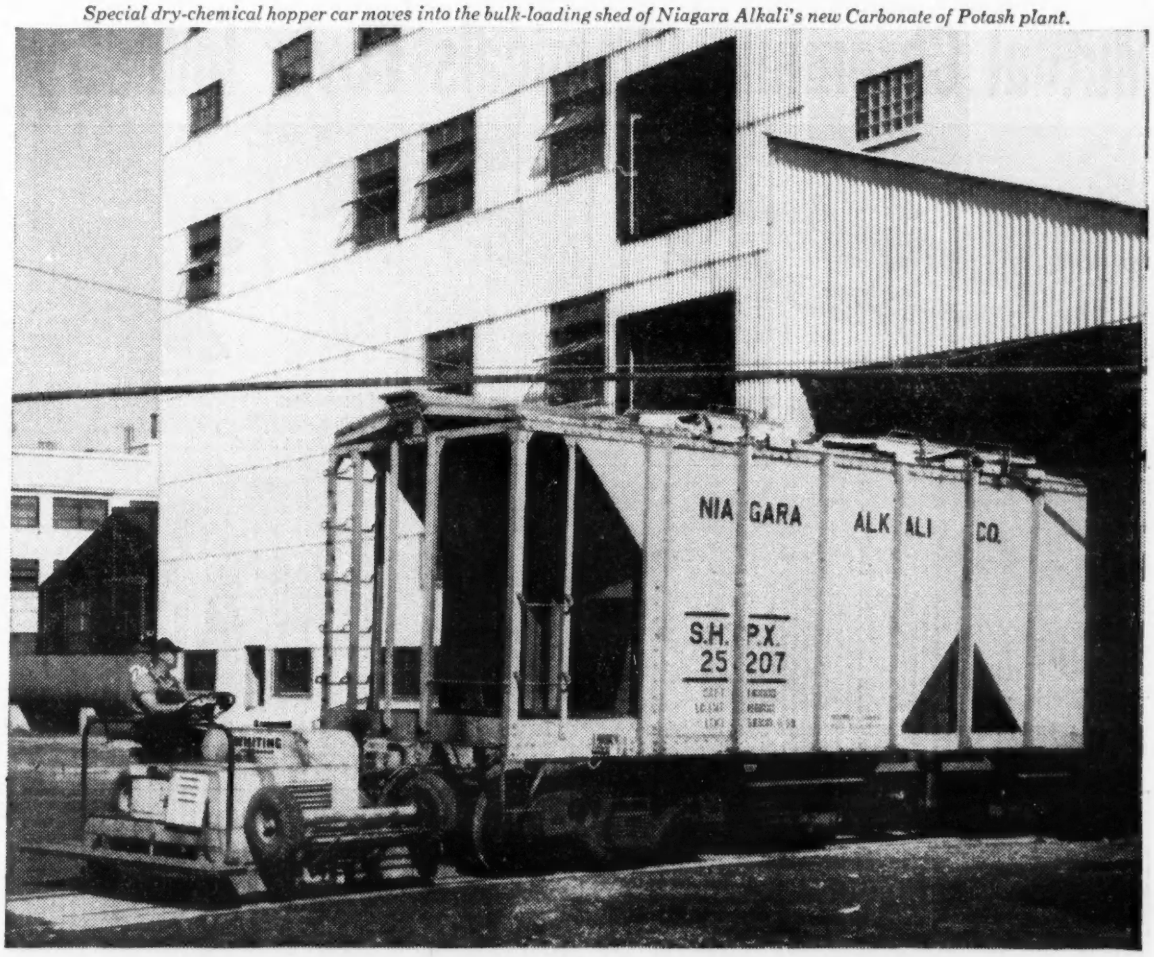
R salt, paste, dms., frt alld., 100% basis lb. .88 - —
powd., frt. alld., 100% basis lb. .98 - —
Rauwolfia serpentina root, powd., bbls, dms lb. 2.00 - 3.00
Red, BON acid maroons, pure, obis. lb 1.75 - —
resinated, bbls ..... lb 1.50 - —
arylid, deep shades, bbls ..... lb 3.60 - —
light shades, bbls ..... lb 2.75 - —
maroon, bbls ..... lb 3.60 5.90
Cadmium, CP, dark shade, bbls., frt. alld. E. of Rockies lb. 4.30 - —
light shade, bbls., same basis. lb. 4.00 - —
medium shade, bbls., same basis lb. 4.25 - —
medium light shade, bbls., same basis lb. 4.05 - —
orange shade, bbls., same basis lb. 3.95 - —
orange red, bbls., same basis. lb. 1.81 - —
Lithopone light red shades, bbls., same basis lb. 2.01 - 2.16
medium light red shades, bbls., same basis lb. 2.19 - —
medium red shade, bbls., same basis lb. 2.37 - 2.52
dark red shade, bbls., same basis lb. 2.57 - 2.82
maroon shade, bbls., same basis lb. 2.82 - 3.05
dark maroon shade, bbls., same basis lb. 3.02 - —
Red cadmium lithopone all shades, in smaller pkgs., 3c per lb. higher; all prices are 1c per lb higher ex whse Los Angeles and San Francisco.
Carmine No. 40 (see Carmine).
Dyes (see Dyes, coaltar)
Eosin toner, bbls, works... lb. 1.60 - —
Indian, dom., pure, bgs., Bethlehem, Easton, E. St. Louis, N. Y. lb. .12¾- —
Iron oxide, nat., 75-85% ferric oxide, bgs., l.c.l., Bethlehem, Pa., Copley O., Easton, Pa., East St. Louis lb. .04 - .07½
syn. 98% ferric oxide, bgs., c.l., works lb. .12¾- —
l.c.l., works lb. .13 —
Lake C toner, alizarin, bbls., works lb. 1.10 - 1.20
Lithol toner, bbls., works..... lb. .85 - —
rubine toner, pure, bbls., works. lb. 1.50 - —
resinated, bbls., works lb. 1.40 - —
Virginia type, bbls., works..lb. 1.40 - —
Maroon toner, MNPT, kgs., c.l., works lb. 3.60 - —
10,000-lb. lots, works... lb. 4.22 - —
smaller lots, works ...lb. 4.24 - —
Metallic, bbls., c.l., works....lb. .02½- —
l.c.l., works ....lb. .02¾- —
Naphthol (TR, bbls., works lb. 5.25 - —
Oxide (see Red iron oxide).
Persian Gulf, bgs., c.l., works.lb. .06¾- —
l.c.l., works ..... lb. .07 - —
Para, toner, bbls. .....lb. 1.05 - —
chlorinated, kgs ..... lb. 1.10 - 1.15
Phloxin toner (see Red eosin toner).
Rhodamine, molybdated, PMA, kegs lb. 5.35 - —
tungstated, PTMA, works, kegs. lb. 6.15 - —
Spanish oxide, bbls., c.l., ex dock. lb. .05¾- —
l.c.l., ex dock..... lb. .06 - —
ex whse., New York lb. .06½- —
Toluidine toner, deep shades, kgs., works lb. 1.60 - —
light shades, kgs., works... lb. 1.60 - —
Turkey, bbls., works..... lb. .62 - —
Tuscan, bbls., frt. equald .... lb. .24½- .25
Venetian, 15%, bgs., works....lb. .0350- .037
20%, bgs., works..... lb. .0475- —
25%, bgs., works..... lb. .0525- —
30%, bgs., works..... lb. .0550- —
35%, bgs., works..... lb. .0575- —
40%, bgs., works..... lb. .0625- —
Watchung-type, bbls..... lb. 1.95 - —
Red KB base (see 4-Chloro-2-aminotoluene).
Red, precipitate (see Mercuric oxide red).
Red saunders, NF, powd., bbls lb. .35 - .40
Reserpine, cryst., bots..... gram.12.00 - —
Resorcinol, tech. grade, dms., c.l., works lb. 77½- —
l.c.l., works ..... lb. 78½- —
USP, cryst., dms., works.....lb. 2.75 - —
powd. dms., works .....lb. 2.95 - —
Monoacetate, NF, dms.....lb. 3.00 - 3.25
Rhatany root, bgs ..... lb. .15 - .16
Rhodinol, 5-lb. cans ..... lb.25.50 -34.00
Rhubarb root, India, whole, bgs lb. 1.75 Nom.
powd., bbls ..... lb. 2.50 Nom.
Riboflavin, USP, bots., dlvd...kilo. 80.00 - —
readily soluble, bots., dlvd kilo.130.00 - —
5'-phosphate-sodium, bots., 100-kilo lots or more..kilo.140.00 - —
Rochelle salt (see Potassium-sodium tartrate).
Rosin gum and wood (see Naval Stores in Protective Coatings market).
Rotenone, fib, dms., works, 100% basis lb.10.00 - —
resin, 25-45%, fib, dms., works, 30% basis lb. 3.00 - —
Rottenstone, bgs., 5-ton lots, ex-whse lb. .03 - —
ton lots, same basis ..... lb. .04 - —
Rutin, NF, fib dms 25-kilo lots, kilo.17.50 -18.50
10 to 25-kilo lots.....kilo.17.50 -20.00
1 to 10-kilo lots.....kilo.18.90 -20.00
Ryania, 100% powd., bgs., c.l., works lb. .22 - —
l.c.l., same basis ..... lb. .24 - —

S

Sabadilla seed, powd., bbls lb. 49 - 49¼
activated, ground with lime, bbls lb. .30 - .32
Saccharin, USP, cryst., soluble, dms., 1000-lb. lots lb. 1.60 - —
smaller lots lb. 1.70 1.80
powd., soluble insoluble, dms., 1000-lb. lots lb. 1.65 - —
smaller lots ..... lb. 1.75 1.95
Saffron, Spanish, USP, tins.....lb.35.00 -40.00
Safrol, dms ..... lb. 1.60 - —
Sage, Cretan bgs ..... lb. .11 - —
Dalmatian, bgs. .....lb. .42 - —
Sago flour raw, bgs.....lb. .06½- .06¾
refd., bgs .....lb. .08¼- .08¾
Sal soda (see Soda sal)
Salicylamide, 100-lb. dms.....lb. 1.00 - —
Salol, NF, gran., bbls., kgs ...lb. 1.15 - —
Powdered salol, 25c. higher.
Salt, rock, paper bgs., c.l.,....100 lbs. .99 - —
table, vacuum, common, fine, paper bgs, c.l. 100 lbs. 1.17 - —
Saltcake, dom., bulk works, 100% Na2SO, basis ton.28.00 - —
Saltpeter (see Potassium nitrate).
Sandalwood, East Indies, chips bgs. .65 - .66
powd., fib. dms ..... lb. .75 - .76
Sarsaparilla root, imp., Honduras, bls lb. .58 - .62
Mexican, bls. .....lb. .58 - .62
Sassafras root bark, ord., bls ..lb. .45 - —
select, bbls ..... lb. .65 - —
Schaeffer's salt, paste, dms., frt. alld. 100% basis lb. .95 - —
powd., bgs., frt. alld., 100% basis, lb. .95 - —
Scopolamine hydrobromide, USP, bots oz.17.40 - —
Seidlitz mixture, bbls., 5,000-lb. lots lb. .30½- —
smaller lots ..... lb 31 32
Selenium, powd., dms., dlvd.....lb. 6.00 - 7.50
Senega root, bls ..... lb. 2.35 - —
Senna leaves, Alex., whole and half, bls lb. .19 - —
siftings ..... lb. .17 - —
Tinnevelly, No. 1, bls ..... lb. .16 - .18
No. 2, bls. .....lb. .13 - .15
No. 3, bls. .....lb. .11 - .13
powdered, bbls., bxs.....lb. .18 - —
pods, bls. ..... lb. .14 - —
Serpentaria root, bls .....lb. 4.95 - —
Sesame seed, Nicaragua, hulled, shipt., bgs. lb. .26 - —
nat., bgs. .....lb. .17½- .18
Salvadorian, natural .....lb. .17 - .17½
Syrian, bgs., natural .....lb. .16 - —
Shellac, bleached, bonedry, bgs., 1,500-lb. lots lb. .58 - —
bbls., 1,500-lb. lots .....lb. .60 - —
kgs., 1,500-lb. lots .....lb. .61 - —
Shellac, refd., bgs., 1,500-lb. lots lb. .66 - —
bbls., 1,500-lb. lots..... lb. .68 - —
kgs., 1,500-lb. lots ..... lb. .69 - —
Bonedry shellac prices for less than 1,500 lb. lots 1c. per lb. higher for all packages.
Lemon, No. 1, bgs., 10-bg. lots. lb. .53 - .55
No. 2, bgs., 10-bag lots .....lb. .51 - .53
Superfine, bgs., 10-bag lots....lb. .50 - .51
TN, bgs., 10-bag lots .....lb. .49 - .50
Shellac in 1 to 10-bg. lots 1c. per lb. more.
Shingle stain oil (see Oil, shingle stain).
Silica, amorph., dry-grd., 325 mesh, bgs., c.l., works ton.25.00 - —
l.c.l., works, exwnse...ton.45.00 -55.00
hard-quartz, 99½, 325 mesh, bgs, c.l., works ton.20.00 - —
l.c.l., works..... ton.25.00 -30.00
140 mesh, bgs., c.l., works ton.15.00 - —
l.c.l., works ..... ton.20.00 - —
Silicon tetrachloride, tech., dms., c.l., works lb. .16 - —
l.c.l., works ..... lb. .20 - .28½
Silver bullion, ingots, cs... Troy oz. .90¾- —
Cyanide, fib. dms., 2,500-oz. lots. oz. .81¼- —
1,000-oz. lots..... oz. .81⅝- —
500-oz. lots..... lb. .81¾- —
100-oz. lots..... lb. .82 - —
Nitrate, CP, cryst., bots., 2,300-oz. lots oz. .57¾- —
1,000-oz. lots..... oz. .59¼- —
500-oz. lots..... oz. .59½- —
250-oz. lots..... oz. .60 - —
USP granular silver nitrate 4c. per oz. higher.

Quicksilver—Sodium Acetate

Silver proteinate, mild, USP, bots., dms., 1,000-oz. lots oz. 1.05 - —
strong NF bots. dms. 1,000-oz. lots oz. 1.00 - —
Soapbark, whole, bls..... lb. .45 - —
crushed, bls., bbls ..... lb. .55 - —
powd., bbls ..... lb. .55 - —
Soda ash dense 58% paper bgs., c.l. works 100 lbs 1.70 —
l.c.l., stock points 100 lbs. 2.80 - 4.57
bbls c.l. works 100 lbs 2.30 —
l.c.l., stock points 100 lbs. 3.35 - 4.12
bulk c.l. works 100 lbs 1.40 —
light, 58%, paper bgs., c.l., works 100 lbs. 1.65 - —
l.c.l., stock points 100 lbs. 3.75 - 4.52
bbls., c.l., works 100 lbs. 2.20 —
l.c.l. stock points 100 lbs. 3.25 - 5.52
bulk c.l. works 100 lbs 1.35 —
Soda, caustic, flake, 76%, dms., c.l., works, frt. equald 100 lbs. 4.25 - —
l.c.l. stock points 100 lbs. 5.45 - —
liq., 50%, sellers, tanks, works, dry basis 100 lbs. 2.70 - —
rayon-type sellers' tanks, works, dry basis 100 lbs. 2.70 - —
70% sellers' tanks, works, dry basis 100 lbs. 2.80 - —
rayon-type sellers' tanks, works, dry basis 100 lbs. 2.80 - —
solid, 76%, dms., c.l., works, 100 lbs. 3.85 - —
l.c.l. stock points 100 lbs. 5.05 - —
Sal., bgs., c.l., works .... 100 lbs. 1.40 - —
l.c.l., works ..... 100 lbs. 1.70 - —
Sodium acetate, anhyd., bgs., c.l., works lb. .15 - —
dms., c.l., works lb. .12¾- —
NF, 60%, gran., dms., c.l., works lb. .12½- —
l.c.l., works .....lb. .14 - —



Special dry-chemical hopper car moves into the bulk-loading shed of Niagara Alkali's new Carbonate of Potash plant.

Niagara's new plant means assured quality for you in

Nialk® CARBONATE OF POTASH

Niagara has recently completed a new plant for the manufacture of carbonate of potash. It is equipped with the latest and finest facilities for quality control and volume production.

As pioneer producers of electrochemicals, Niagara has consistently set new standards of purity and uniformity.

These new facilities, together with Niagara's long experience in the production of quality products, are your assurance of complete dependability in NIALK Carbonate of Potash. Why not benefit by the extra protection they provide in your products and processes?

NIAGARA ALKALI COMPANY
60 East 42nd Street, New York 17, N. Y.
Plant: Niagara Falls, N. Y.

Send for free illustrated booklet, NIALK CAUSTIC POTASH, CARBONATE OF POTASH *containing valuable data on the use and handling of these chemicals.*

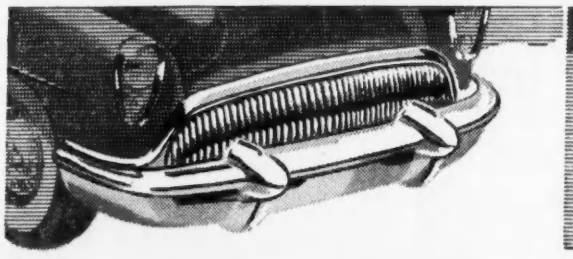
Sodium Alginate—Sodium Silicofluoride

Sodium alginate, NF, white powd., dms., ton lots, works lb. .87 - 1.30
refd bns., works lb. 83 —
p-Aminobenzoate, dms., 1,000-lb. lots or more lb 2.40 - —
smaller lots lb 2.45 2.50
p-Aminosalicylate, dms., 1,000-lb. lots or more, frt. adjusted. lb. 3.75 - —
smaller lots, same basis lb 3.80 4.25
Antimoniate, bbls., c.l., dlvd E. lb. .28 - —
l.c.l., dlvd. E lb. .29½- —
Arsenate, dms., c.l., works lb. .12½- —
l.c.l., works lb. .13¾- .14¾
Arsenite, dms., c.l., works lb. .13½- —
l.c.l. works lb. .14¼- .15½
soln., dms., works gal. .59 - .67
Ascorbate, dms., 25-50 kilo lots kilo.16.00 - —
10-kilo lots kilo.16.35 - —
5-kilo lots kilo.16.75 - —
1-kilo lots kilo.17.00 - —
bots., 500-gram lots kilo.17.50 - —
Benzoate, tech., bbls., dms., 100-lb lots or more lb. .39 - —
USP, bbls., dms., 100-lb. lots, or more lb. .46 - —
Bicarbonate, USP, gran., bgs., c.l., works 100 lbs. 2.70 - —
l.c.l., works 100 lbs 3.70 - —
powd., bgs., c.l., works 100 lbs 2.30 - —
l.c.l. works 100 lbs 3.30 - —
Bichromate, bgs., c.l., works lb. .12¼- —
l.c.l., works lb. .12¾- .13¾
Bifluoride, bbls., c.l., works, frt. equaled lb. .17½- —
l.c.l., same basis lb. .1790- —
Sodium bisulfate, bulk, c.l., works 100 lbs. 2.00 - —
dms., c.l., frt. equald 100 lbs. 3.00 - 3.60
l.c.l., frt. equald 100 lbs. 3.50 - 4.10
Bisulfite, anhyd., bgs., c.l., works. 100 lbs. 4.50 - —
l.c.l., works 100 lbs 4.90 - —
soln., 35°, bbls., c.l., works. 100 lbs. 1.55 - —
l.c.l., works 100 lbs. 2.05 - —
Borate (see Borax).
Bromide, USP, bbls., works lb. .36 - —
Carbonate, anhyd. (see Soda ash).
cryst., monohydrated (see Soda, sal). monohydrated bgs., c.l., works. 100 lbs. 2.90 - —
l.c.l., works 100lbs. 3.30 - —
Carboxymethyl cellulose (see CMC).
Chlorate, cryst., dms., c.l., works. lb. .08¾- —
l.c.l., works lb. .10¼- .11
Chloride, tech. (see Salt). USP, bgs. lb. .05 - .12
Chlorite, tech., dms., c.l., works. lb. .58 - —
20-ton lots or more, works. lb. .66 - —
smaller lots, works lb. .70 - .73
Chloroacetate, tech., dms., c.l., works lb. .27 - —
l.c.l., works lb. .28 - —
Chromate, dms., c.l., works lb. .13¼- —
l.c.l., same basis lb. .13¾- .15
Citrate, anhyd., dms. lb. .60 - .65
NF VIII, gran., dms lb. .26 .30½
USP, XVI gran., dms lb. .29½- .34
Sodium citrate, USP, powd. prices ½c. higher.

Sodium cyanate, dms., 1,000-lb. lots, works lb. .85 - 1.10
smaller lots works lb. 1.00 1.25
Cyanide flake, 96-98%, dms., c.l., or 20,000-lb. lots lb. .178 - —
over 1,000-lb lots lb. .188 - —
100-lb. to 1,000-lb. lots lb. .198 - —
Granular sodium cyanide 1c. higher.
Diacetate, 33-35% acidity, 250-lb. dms., works lb. .14 - —
l.c.l., works lb. .14¾ - —
anhyd., dms., c.l., works lb. .17 - —
l.c.l., works lb. .17¾ - —
Dichromate (see Sodium bichromate).
Ferrocyanide, bgs., 10-ton lots. lb. .13½- —
smaller lots lb. .14 —
Fluoride white, 97%, fib. dms., c.l., works, frt. equald lb. .1250- —
l.c.l. works lb. .1290- —
Formate, bgs., c.l., works lb. 7.60 - —
l.c.l. works 100 lbs 8.65 - —
Gentisate, 100-lb. fib. dms lb. 8.50 - —
Gluconate, refd., dms. lb. .80 - .83
tech., dms lb. .35 - —
Glutamate, mono-, dms., c.l lb. 1.55 - —
Hydride, dms., works lb. 1.80 - 3.00
Hydrosulfide (see Sodium sulfhydrate).
Hydrosulfite, dms., c.l., frt. alld. lb. .22 - —
l.c.l., frt. alld lb. .22½- —
Hydroxide, tech. (see soda caustic). NF pellets, 100-lb dms., 1 to 100-dm. lots lb. .18½- .23
Hypophosphite, NF, dms., ton-lots or less lb. .95 - .98
Hyposulfite, USP (see Sodium thiosulfate). pea crystals, bgs. 100 lbs. 4.50 - —
gran., bgs., c.l., works 100 lbs. 4.75 - 5.00

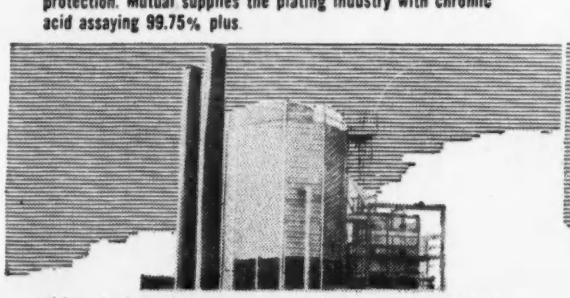
Sodium hyposulfite, photo grade, bgs., c.l., works 100 lbs. 4.50 - 4.75
l.c.l. works 100 lbs. 5.00 5.05
tech., bgs., works 100 lbs. 4.50 - —
l.c.l., works 100 lbs. 4.90 - 6.90
Sodium hyposulfite crystals in bbls., 50c. higher
Iodide, USP, bots., dms lb. 2.55 - 2.62
Lactate, edible, 50%, cbys., dms., works lb. .21½- —
60% cbys., dms., works lb. .26½- —
tech., 50% cbys., dms., works, lb. 16½- —
Lauryl sulfate, dms., c.l., dlvd lb. .22 - —
l.c.l., dlvd lb. .23 - —
tanks, dlvd lb. .20 - —
Metabisulfite (see Sodium bisulfite).
Metaborate, octahydrate, gran., bgs., c.l., works ton.85.00 - —
l.c.l., ex whse ton.135.50 -140.50
Sodium metaborate, octahydrate in bbls. $24.50 per ton higher
Tetrahydrate, bbls. c.l., works. ton 199 50 - —
Metallic, bricks, 14,000-lb. lots or more, works lb. .17 - .19
less than 14,000-lb. lots, works. lb. .175 - .195
tanks, works lb. .16 - —
Metanilate, bbls. frt. alld lb. .62 - —
Metasilicate, anhyd., bgs., c.l., works 100 lbs. 5.10 - —
l.c.l., works 100 lbs. 5.45 - 7.35
dms., c.l. 100 lbs. 5.50 - —
l.c.l. 100 lbs. 5.85 - 7.75
Pentahydrate, bgs., c.l., works. 100 lbs. 4.10 —
l.c.l., works 100 lbs. 4.45 - 6.35
dms., c.l., works 100 lbs. 4.50 - —
l.c.l., works 100 lbs. 5.10 - 5.85
Molybdate, bbls., cbys., works lb. .85 - .95
anhd., cryst., dms., works lb. .70 - —
powd., dms., works lb. .85 - .92
Monohydrate (see Sodium carbonate, monohydrated).
Naphthionate, bbls lb. .70 - —
Nitrate, crude, dom., bgs., c.l., works ton.47.00 - —
bulk, c.l., works ton.43.50 - —
imp., 100-lb. bgs., c.l., Atl. Gulf, Pac., whse ton.51.25 - —
bulk, c.l., same basis ton.47.75 - —
Nitrite, USP, bbls., c.l., works, frt. equaled lb. .08 - —
l.c.l., same basis lb. .09½- —
Orthosilicate, conc., dms., c.l., works 100 lbs. 6.00 - —
l.c.l., works 100 lbs. 6.35 - 6.75
hydrated, flake, bbls., c.l., works. 100 lbs. 5.25 - —
l.c.l., works 100 lbs. 7.00 - —
Oxalate, 88%, bgs., works 100 lbs.10.85 - —
Para-aminobenzoate (see sodium p-Aminobenzoate).
Para-aminosalicylate (see Sodium p-Aminosalicylate)
Pentachlorophenate, briquets, bgs., c.l., works, frt. equald lb. .25½- —
l.c.l. same basis lb. 26½- .28¼
pellets, bgs., c.l., same basis lb. .25 - —
l.c.l., same basis lb. .26 - .28
powd., bgs., dms., c.l., same basis lb. .24 - —
l.c.l., same basis lb. .25½- .32
Pentachlorophenate, 20,000 lbs. min. truckloads, ¼c. per lb. over carlot prices.
Perborate, NF, tech., bgs., c.l., works lb. .173 - —
l.c.l., works lb. .178 - —
Peroxide, dms., c.l., dlvd. E. of Miss. lb. .1860- —
l.c.l. same basis lb. .1910- .1960
Phenolsulfonate, USP IX, gran., dms lb. .44 - .45
powd., dms lb. .47 - .48
Phosphate, dibasic, anhyd., bgs., c.l., frt. equald 100 lbs. 7.45 - —
l.c.l., works 100 lbs. 7.85 - —
USP, dried powd., bgs., dms., works lb. .19 - .20½
monobasic, anhyd., bgs., c.l., frt. equald 100 lbs. 8.45 - —
l.c.l., frt. equald 100 lbs. 8.90 - —
duohydrate, bgs., c.l., frt. equald 100 lbs. 7.95 - —
l.c.l., frt. equald 100 lbs. 7.25 - —
tribasic, anhyd., bgs., c.l., l.c.l., frt. equald 100 lbs. 8.45 - —
l.c.l., frt. equald 100 lbs. 8.85 - —
cryst., bgs., c.l., t.l., frt. equald 100 lbs. 4.20 - —
l.c.l., frt. equald 100 lbs. 4.60 - —
Sodium phosphates in dms., 60c. higher than bgs.
Prussiate, yellow (see sodium ferrocyanide)
Pyrophosphate, acid, bgs., c.l., works, frt. equald 100 lbs.10.75 - —
ferric, dms., 1,500-lb. lots, works. lb. .31 - —
smaller lots, works lb. .32 - —
tetrabasic, anhyd., bgs., c.l., works, frt. equald 100 lbs. 7.37½- —
l.c.l., frt. equald 100 lbs. 7.77½- —
Salicylate, USP, dms lb. .71 - .74
Sesquicarbonate, bgs., c.l., works. 100 lbs. 2.10 - —
l.c.l., dlvd., zone 1. 100 lbs. 3.85 - 4.10
zone 2 100 lbs. 4.10 - 4.35
zone 3 100 lbs. 4.40 - 4.65
zone 4 100 lbs. 5.10 - 5.35
Sales zones are: (1) All States E. of Miss. R. and N. of south bound of Ky. and Va.; Ala., La., and Miss., south of 31° Tex. E. of 100°; S. of 31° Fla.; also Me., N. H., and Vt., in which there are special county zones; Davenport, Ia. and St. Louis; (2) Ark. E. of 98° Ga.; Iowa (except Davenport), Minn.; Mo. (except St. Louis), Neb., E. of 98° N. C., S. C., Tenn. and Tex. N. of 31° and E. of 100° (except Wichita Falls); also Ala., La. and Miss. No. of 31°; (3) Ark. W. of 96°, Kan., Neb. W. of 98°; N. D., Okla., S. D., Tex., W. of 100° (including Wichita Falls, excluding El Paso); (4) Ariz., Colo., Idaho, Mont., Nev., N. M., Utah, Wyo., and El Paso, Tex.
Sesquisilicate, hydrated, bgs., c.l., zone 1, dlvd. ton.120.00 - —
l.c.l., works 100 lbs. 4.95 - 5.35
dms., c.l., works 100 lbs. 5.00 - —
l.c.l., works 100 lbs. 5.35 - 5.75
Silicate, liq., 40° Be, 1:3.2, turbid, dms., c.l., works 100 lbs. 1.35 - —
l.c.l., works 100 lbs. 1.70 - 2.20
tanks, works 100 lbs. 1.00 - —
47° Be, turbid, 1:2.9, dms., c.l., works. 100 lbs. 1.95 - —
l.c.l., dms., works. 100 lbs. 2.55 - 2.80
tanks, works 100 lbs. 1.60 - —
52° Be, turbid, 1:2.4, dms., c.l., works. 100 lbs. 2.30 - —
l.c.l., works 100 lbs. 2.65 - 3.15
tanks, works 100 lbs. 1.95 - —
solid, 1:3.2, bgs., works ton.57.50 - —
Silicofluoride, bgs., c.l., works lb. .075 - —
l.c.l., works lb. .079 - —
Sodium silicofluoride in dms., 4-10c. higher.

Mutual Chromium Chemicals Cover Industry

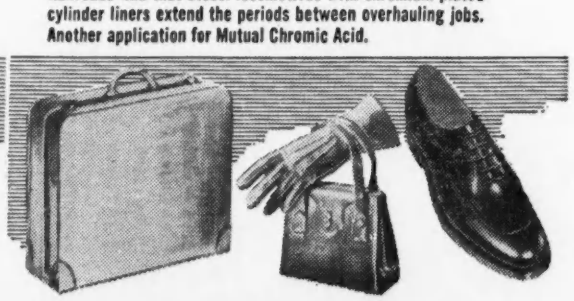


Automobile buyers demand Chromium plating for appearance and protection. Mutual supplies the plating industry with chromic acid assaying 99.75% plus.

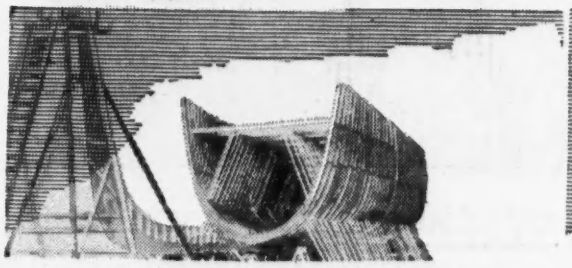
Railroads find that Diesel locomotives with chromium plated cylinder liners extend the periods between overhauling jobs. Another application for Mutual Chromic Acid.



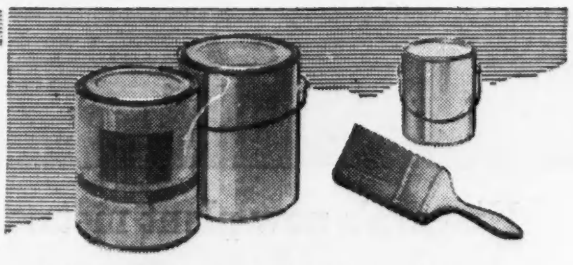
With water becoming scarcer, many industrial users recirculate water in cooling systems, Mutual Chromates effectively control corrosion of equipment.



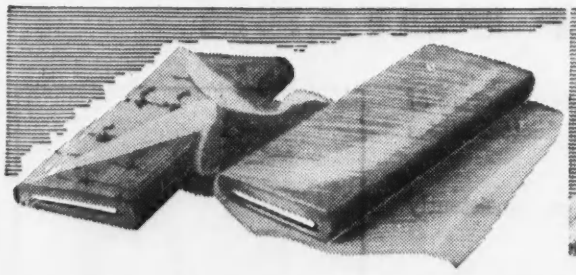
Tanners of superior leather products turn to Mutual for Sodium Bichromate and Koreon (one-bath chrome tan).



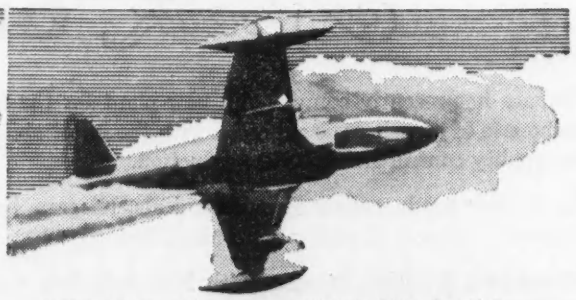
Chromated wood preservatives are specified in an ever-widening list of applications. Mutual Chromates are important ingredients in most such preservatives.



Chrome yellow and chrome green pigments are widely used in paints and printing inks. Mutual Bichromates are the standard of the pigment industry.



Textile dyers rely on Mutual Bichromates for mordanting wool and oxidizing cotton dyes.



Aircraft makers anodize aluminum with Mutual Chromic Acid to prevent corrosion and to form a base for paint.

Sodium Bichromate • Chromic Acid • Sodium Chromate • Potassium Bichromate • Koreon

MUTUAL CHEMICAL DIVISION

MUTUAL — ALLIED CHEMICAL & DYE CORPORATION

99 PARK AVENUE • NEW YORK 16, N. Y.

Allied Chemical

Sodium stannate, dms., works, frt. alld. E lb. .562 - .616
Sulfa drugs (see Sulfa name).
Sulfanilate, bbls., works lb. .22 - —
Sulfate, NF, VII, dried, powd., dms lb. .22½- —
tech., anhyd., bgs., c.l., dlvd., E ton.52.00 - —
detergent grade, bgs., c.l., works ton.34.00 - —
rayon grade, bgs., c.l., works ton.31.00 - —
USP cryst fib dms lb. .17½- .18
gran fib dms lb. .17½- .18
Sulfide, flake, dms., c.l., works, E. frt. equald lb. .05¼- —
c.l. same basis lb. .05¾- —
fused, bbls. c.l. works, E., frt. equald lb. .04¾- —
c.l. same basis lb. .05¼- —
Sulfite, anhyd., bgs., c.l. 100 lbs. 3.00 - —
c.l. same basis 100 lbs. 3.50 - —
powd., bbls., c.l., works 100 lbs. 7.25 - —
t.c.l. works 100 lbs. 7.50 - —
Sulfhydrate, flake, 70-72%, dms., c.l., works lb. .06½- —
t.c.l., works lb. .07 - —
liq. 40-44%, tanks, works, 100% basis ton.110.00 - —
Sulfocyanide, CP, (see Sodium thiocyanate).
Tetraborate (see Borax).
Tetrasulfide, liq., 40%, dms., c.l., works lb. .03½- —
t.c.l. works lb. .04 - —
Thiocyanate, CP, dms lb. .55 - .65
tech., anhyd., 1 ton lots or more, works lb. .317 - —
less than ton lot, works lb. .337 - —
Thiosulfate, NF, cryst., bbls. lb. .12½- —
tech. (see Sodium hyposulphite).
Titanate, cons., c.l., works lb. .10½- —
5-ton lots, works lb. .10¾- —
1-ton or less, works lb. .11 - —
Toluene sulfonate, dms., c.l., or t.l. lb. .38 - —
t.c.l. lb. .42 - —
Trichloracetate, 90%, 100-lb. dms., c.l., frt. alld. E lb. .37½- —
t.c.l., frt. adjusted, E lb. .39½- —
50-lb. dms., c.l., frt. alld. E. lb. .38 - —
t.c.l., frt. adjusted E lb. .40 - —
10-lb. cns., c.l., frt. alld. E. lb. .44 - —
t.c.l., frt. adjusted E lb. .46 - —

Prices on Sodium trichloroacetate W. of the Rockies are 1¾c. per pound higher.

Tripolyphosphate, bgs., c.l., works, frt. equald 100 lbs. 7.72½- —
t.c.l. same basis 100 lbs. 8.12½- —
Trisilicate, powd., 1:3.2, bgs., c.l., works 100 lbs. 8.65 - —
t.c.l. works 100 lbs. 9.40 - 9.80
dms., c.l., works 100 lbs. 9.05 - —
t.c.l., works 100 lbs. 9.80 -10.20
Tungstate, tech., kgs., dlvd. E lb. 1.80 - —
Sodium ammonium phosphate, bbls., works, frt. equald lb. .23 - —
Sodium-carboxymethyl cellulose (see CMC).
Sodium cinchophen (see Cinchophen-sodium).
Sodium-formaldehyde sulfoxylate, dms., c.l., dlvd lb. .21 - —
t.c.l., same basis lb. .21½- —
Sodium-zirconyl sulfate, fiber dms., 1,000-lb lots or more works lb. .28 - —
smaller lots, same basis lb .30 - —
Solvent naphtha, coaltar, high flash, tanks, works gal. .31 - .35
petroleum (see Petroleum solvent, partial aromatic).
Sorbitan monostearate, fib. dm..., 20,000-lb. lots, works lb. .32 - —
10,000 to 20,000-lb. lots, works, lb. .34 - —
smaller lots, works lb. .37 - .39
Tristearate, fib. dms., 20,000-lb. lots works lb. .33 - —
10,000 to 20,000-lb. lots, works, lb. .35 - —
smaller lots works lb .38 - .40
Sorbitol, cryst., resin grade, pellets, dms., c.l., works lb. .23 - —
1 to 5-ton lots, works lb. .25 - .26
powd., dms., 1- to 5-ton lots, works lb. .38 - .39
soln., comi., aqueous, dms., c.l., works lb. .24¼- —
ton lots, works lb. .25 - —
smaller lots, works lb. .25¼- —
tanks, works lb. .23¼- —
reg., 70%, aqueous, dms., c.l., works lb. .16 - —
ton lots works lb. .16¾- —
smaller lots, works lb. .17 - —
tanks, works lb. .15 - —
Soybean meal, 44%, bulk, Decatur. ton.60.00 Nom.
protein, chemically isolated, bgs., c.l., works lb. .23 - —
mechanically refd., bgs., c.l., works lb. .96 - —
Sparteine sulfate, cns. oz. .80 - .85
Spearmint leaves, dom., bls lb. .75 - —
Spruce extract, liq., reg. tanks, works lb. .01¾- —
powd., super, bgs., c.l., works, lb. .05¼- —
t.c.l., works lb. .05½- —
Squill, white, bls. lb. .17 - .19
powd., bbls., bxs. lb. .18 - .21
St. John's bread, edible, bls. lb. .13 - .15
Stannic chloride, anhyd., dms., works lb. .776 - .786
Oxide, dms., dlvd. E lb. .98 - .99
Stannous chloride, anhyd., dms., works lb. .836 -1.035
Hydrous, cryst., dms., works, lb. .78½- .79½
Sulfate, dms., works lb. .953 - .973
Starch, corn, pearl, paper bgs., c.l. 100 lbs. 7.24 - —
t.c.l. 100 lbs. 7.39 - —
powd., paper bgs., c.l. 100 lbs. 7.36 - —
t.c.l. 100 lbs. 7.51 - —

Prices for corn starch in cotton bags, 25c. per 100 lbs. higher.

Potato, dom., Idaho, bgs., c.l., works lb. .06¾- —
Maine, bgs., c.l., works lb. .07 Nom.
t.c.l., spot lb. .09 - .09½
Rice, bgs., t.c.l. lb. .15½- .16
Wheat, bgs. lb. .0755- .0780
Star root (see Helonias root).
Stargrass Root (see Aletris root).
Stavesacre seed, bgs lb. .60 - .61
Stearine oleo (see Oleostearine.)
Stomach substance, not USP, 100-lb. fib. dms lb. 2.80 - —
Stramonium leaves, bgs lb. .18 - .20
Streptomycin hydrochloride, bulk, gram. .063 - .07
Strontium bromide, NF, cns., dms. lb. .75 - .84
Carbonate, pure, dms., 5-ton lots or more, works lb. .35 - —
1-ton lots, works lb. .37 - —
tech., dms., works lb. .19 - —
Chromate, bbls., works lb. .46 - —
Iodide, jars, 25-lb. lots lb. 3.42 - —
Nitrate, bbls., c.l., works 100 lbs.11.00 - —
t.c.l. works 100 lbs.12.00 - —
Salicylate, NF, dms lb. 1.75 - —
Sulfate, air floated, 90%, 325 mesh, bgs., works ton 56.70 -66.15
Strophanthin, K, bots oz.25.00 -25.50
G. (see Ouabain, USP).
Strophanthus seed, Kombi, biologically tested, bgs lb. 3.50 - 3.75
Strychnine, NF, powd. cns., 10-oz. lots oz. 1.10 - —
Phosphate, NF, cns., 100-oz. lots oz. 1.14 - —
Sulfate, USP, cryst., cns., 25-oz. lots oz. .96 - —
powd., 100-oz. lots oz. .85 - —
Styrax, USP, cs lb. .78 - .80
Styrene monomer, polymer grade, 99½%, dms., c.l., frt. alld. lb. .22½- —
t.c.l., same basis lb. .23½- —
tanks, same basis lb. .20½- —
synthetic rubber grade 99%, dms., c.l., frt. alld. lb. .19 - —
t.c.l., same basis lb. .20 - —
tanks, same basis lb. .17 - —
Styrolyl acetate, bots lb. 1.45 - 1.70
Sucrose, crude, bgs., dlvd., N. Y. lb. .0550- —
refd., white, bgs., refy., E lb. .0855- —
Beta-acetate, denaturing grade, 100-200-lbs., bgs., t.c.l., works lb. .76 - —
Sugar, raw (see Sucrose, crude).
Sulfabenzamide, dms. lb. 4.00 - 4.50
Sodium, dms. lb. 4.10 - 4.60
Sulfacetamide, fib. dms. lb. 4.00 - 4.20
Sodium, fib. dms. lb. 5.00 - 5.20
Sulfadiazine, USP, microcrystals, dms. lb.10.60 -11.10
powd., dms. lb.10.25 -10.75
Sulfadiazine-sodium, USP, dms. lb.11.25 -11.75
microcrystals, dms. lb.11.60 -12.10
Sulfaguanidine, USP, dms lb. 2.50 - —
Sulfamerazine, USP, microcrystals, lb.10.65 -11.15
Sulfamerazine-sodium, USP, dms., lb.11.25 -11.75
Sulfamethazine, microcrystals, dms., lb. 8.90 - 9.40
powd., dms. lb. 8.50 - 9.00
Sulfanilamide, USP, 30-80 mesh., dms. lb. 1.40 - 1.60
microcrystals, dms. lb. 1.70 - 1.90
powd., dms. lb. 1.30 - 1.50
Quinoxaline, veterinary, dms. lb. 6.40 - 6.75
Sulfapyridine, NF, powd., bots., tins, lb. 7.00 - 7.50
Sulfapyridine-sodium, monohydrate, dms lb. 7.50 - 8.00
Sulfathiazole, USP, microcrystals, dms lb. 2.85 - 3.00
powd., dms. lb. 2.50 - 2.65
Sulfathiazole-sodium, USP, dms lb. 2.75 - 2.90
Sulfur, coml., flour, bgs., mines 100 lbs. 2.30 - —
bbls., mines 100 lbs. 2.50 - —
lump, bgs., mines 100 lbs. 2.20 - —
bbls., mines 100 lbs 2.65 - —
Sulfur, crude, bulk, c.l., mines, contract long-ton.26.50 - —
export, f.o.b. vessels, Gulf ports long-ton.31.00 -33.00
domestic and Canada, f.o.b. vessel Gulf port long-ton.28.00 -29.50
refd., flowers, USP, bgs., mines, 100 lbs. 4.00 - —
bbls. 100 lbs. 5.25 - —
flour, light, bgs., mines 100 lbs. 3.60 - —
bbls., mines 100 lbs. 4.50 - —
lump, bgs., mines 100 lbs. 3.30 - —
rolls, bgs., mines 100 lbs. 3.85 - —
bbls., mines 100 lbs. 4.40 - —
salt block, bgs., mines 100 lbs. 3.50 - —
virgin block, bbls., mines 100 lbs. 3.45 - —
rubbermakers, coml., reg., bgs., mines 100 lbs. 2.40 - —
bbls., mines 100 lbs. 3.55 - —
98-100% passing through 325 mesh, bgs., mines 100 lbs. 2.50 - —
bbls., mines 100 lbs. 3.65 - —
refd., bgs., mines 100 lbs. 3.25 - —
bbls. mines 100 lbs. 4.30 - —
treated, 2.5% mineral oil, bgs., mines 100 lbs. 2.70 - —
bbls., mines 100 lbs. 3.85 - —
10% pine tar, bgs., mines, 100 lbs. 3.90 - —

Sodium Stannate—Talc, Dom., Ord.

Sulfur dichloride, dms., c.l., works, frt. equald lb. .03¾- —
t.c.l., same basis lb. .04½- —
tanks, same basis lb. .03½- —
Dioxide, liq., coml., cyls., works, frt. equald lb. .10 - .12
multi unit cars, works lb. .0535- —
tanks, works lb. .045 - —
refrigeration, cyls., dlvd lb. .27 - —
Monochloride, 55-gal., dms., c.l., frt. equald lb. .03¾- —
t.c.l., same basis lb. .04½- —
tank, same basis lb. .03½- —
Sumac leaves, 28%, bgs., ex-dock, ton.132.00 - —
ground, bgs., ex-dock ton.127.00 - —
Superphosphate, run-of-pile, under 22% a.p.a. pulv., bulk, c.l., Balto., unit-ton. .88 - .91
Carteret, N. J. unit-ton. .88 - .91
triple, 48% or more, a.p.a., pulv., bulk, c.l., East Tampa, Fla. unit-ton. .98 - —

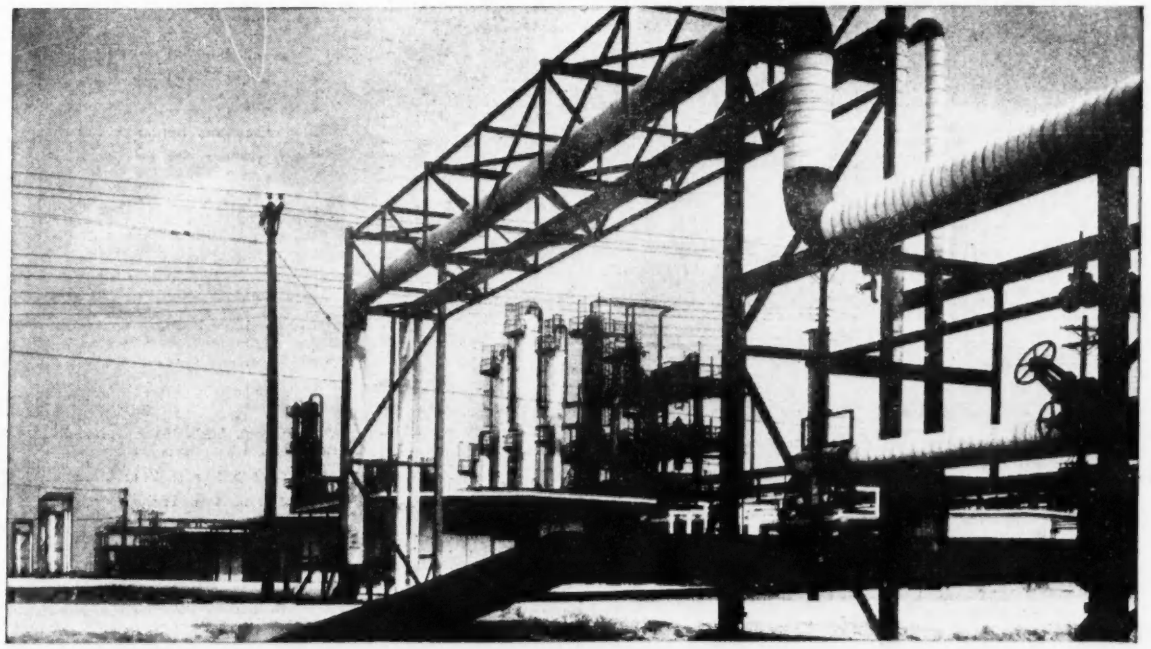
T

2,4,5-T, dms., c.l., works, frt. equald. lb. 1.25 - —
t.c.l., same basis lb. 1.30 - 2.30
Isopropyl ester, dms., c.l., works, frt. equald lb. 1.30 - —
t.c.l., works lb. 1.35 - —
Talc, dom., ord., Calif., grd., bgs., c.l., works ton.32.00 -38.50
Vermont off color grd., bgs., c.l., works ton.18.40 - —
t.c.l., works ton.36.00 - —

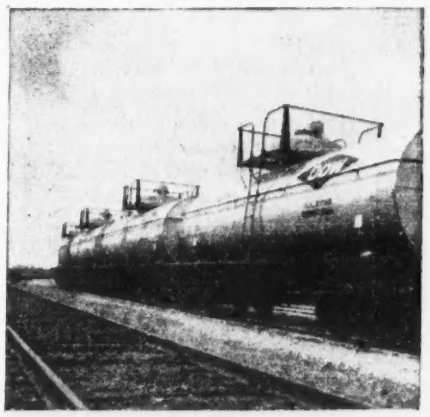
DOW

DOW ON STREAM WITH GLYCERINE!

new supply of synthetic assures stability for glycerine users



Dow glycerine plant, with a rated capacity of 36 million pounds per year, provides an important new source of supply for industry.



Aluminum tank cars will provide fast delivery of quality-maintained Dow glycerine from several bulk stock points throughout the country. Shipments are also made in resin-lined drums and tank trucks.

The entry of Dow into this important field of manufacture is increasing the availability of synthetic glycerine and exerting a stabilizing influence on the glycerine market. Also a factor in stability is Dow's basic position—all raw materials required in glycerine production are manufactured by Dow.

This is good news for the major industrial users of glycerine—manufacturers of alkyd resins, humectants for tobacco products, dynamite explosives, and plasticizers in cellophane, adhesives and paper—as well as smaller but important users in 1,500 other applications.

For an immediate evaluation sample, property data or delivery details, write to your nearest sales office of THE DOW CHEMICAL COMPANY.

you can depend on DOW CHEMICALS DOW

Talc, Dom., Fibrous—Yellow, Hansa

Talc, dom., fibrous, New York, grd., bgs., c.l., works ton 27.00 - 32.00
l.c.l., works ton 30.00 - 35.00
99.5%, 325 mesh, bgs., c.l., works ton 30.00 - —
l.c.l., works ton 33.00 - —
99.95% micronized, bgs., works ton 37.00 - —
Imp., Canadian, grd., bgs., c.l., mines ton 20.00 - 35.00
Tallow, edible, tanks, dlvd lb. .09¾ - —
inedible, extra, tanks, dlvd lb. .07⅞ - —
fancy, bleachable, tanks, dlvd. lb. .03⅛ - —
guaranteed, dms., f.a.s lb. .09⅜ - —
No. 1, tanks, dlvd lb. .07¼ - —
special tanks, dlvd lb. .07⅝ - —
sulfonated, 25%, bbls., l.c.l. lb. .03⅛ - .06⅝
50%, bbls., l.c.l. lb. .09½ - .10⅝
50%, bbls., l.c.l. lb. .09¼ - .10
Tankage, animal, feeding, 9-11% ammonia, bulk unit-ton 5.00 - —
Chicago unit-ton 5.75 - —
Tapioca flour, Brazilian, bgs., ex whse lb. .07¾ - .08¼
Siamese, top grade, bgs., ex whse lb. .07½ - .07¾
Tar acid oil, 15-18%, dms., c.l., frt equald gal. 47 - 49
l.c.l., same oasis gal. 50 - 51
tanks, same basis gal. 39 - —
25-28% dms, c.l., same basis. gal. 54 - 56
l.c.l., same basis gal. 57 - 58
tanks, same basis gal. 46 - —
50-53% dms, c.l., same basis. gal. 70 - 72½
l.c.l., same basis gal. 73½ - 74½
tanks, same basis gal. 62½ - —
Coal (see Coaltar)
Tartar, emetic (see Antimony-potassium tartrate).
Terpine glycol ether, dms., c.l., works lb. .23½ - —
l.c.l., works lb. .25½ - —
tanks, works lb. .22 - —
Hydrate, NF, cryst., powd., fib. dms lb. .67½ - .74
a-Terpineol, dms., l.c.l., dlvd E lb. .20¾ - —
extra, dms lb. 41 - 60
prime, dms lb. .30 - 45
Terpinyl acetate, extra, cns., dms. lb. .60 - 75
prime, dms lb. 55 - 70
Propionate, dms lb. 1.75 - 2.00
Terra alba (see Gypsum).
Testosterone, USP, 100-gm. lots, bots gram .70 - —
Propionate, USP, 100-gm. lots, bots gram .68 - —
Tetrachloroethane, dms., works lb. .14½ - —
Tetrachloroethylene, tech. (see Perchloroethylene).
USP, 55 gal. dms., works lb. .20½ - 21½
smaller dms., works lb. .23½ - 25
Tetraethyl orthosilicate, dms., c.l., dlvd. E lb. .61½ - —
l.c.l., dlvd. E lb. .62½ - —
Pyrophosphate, 40%, cns., dms., frt. equald lb. .69 - —
Tetraethylenepentamine, dms., c.l., dlvd. E lb. .49 - —
l.c.l., dlvd. E lb. .50 - —
tanks, dlvd. E lb. .47 - —
Tetrapotassium phosphate (see Potassium phosphate)
Tetrasodium pyrophosphate (see Sodium pyrophosphate)
Thallium metal, dlvd lb 12.50 - 15.00
Sulfate 99%, bots, dlvd lb 8.00 - 13.00
Theobromine, NF, fib, dms lb. 4.00 - —
And sodium acetate USP, fib. dms lb. 4.20 - —
Sodio-Salicylate, NF, fib, dms lb. 3.50 - —
Theophylline, anyhd or USP, 100-lb. dms lb 3.65 - —
Thiamine hydrochloride, USP, regular or ampul-type, fib dms. kilo 80.00 - —
Mononitrate, USP, fib, dms kilo 80.00 - —
Thiocarbanilide, dms., ton lots lb. .72 - —
less tons lots lb. .74 - —
Thiodiphenylamine (see Phenothiazine).
Thiourea, tech., dms., c.l., works. lb. .36 - —
l.c.l., works lb. .38 - —
Thorium nitrate, purif., fib. dms., 100-lb lots or more, works lb 3.50 - —
dl-Threonine, bots, 1-kilo lots kilo 450.00 - 500.00
Thyme leaves, French, bgs. lb. .20 - .22
Spanish, bgs. lb. .09½ - —
Thymol, fib. dms lb 2.90 - 3.05
Iodide, NF, dms lb. 7.30 - —
Timbo root (see Cube root)
Tin chloride (see Stannous chloride, anhydrous)
crystals (see Stannous chloride, hydrous)
Metal (Straits) lb. .97⅛ - —
Oxide (see Stannic oxide)
Sulfate (see Stannous sulfate).
Tetrachloride, anhyd. (see Stannic chloride, anhydrous)
Titanium dioxide, anatase, chalk resistant, bgs., c.l., dlvd lb. .22½ - —
l.c.l., dlvd. lb. .23½ - —
ceramic, bgs., c.l., dlvd lb. .22½ - —
l.c.l., dlvd. lb. .23½ - —
reg., bgs., c.l., dlvd lb. .22½ - —
l.c.l., dlvd lb. .23½ - —
metallurgical, nat., gran., bgs., c.l., f.o.b. Jacksonville, Fla. ton 120.00 - —
Niagara Falls, N. Y., c.l., ton 137.50 - —
5-ton lots ton 142.50 - —
ton lots, c.l. ton 147.50 - —
rutile, nonchalking, bgs., c.l., dlvd. E lb. .24½ - —
l.c.l., dlvd. E lb. .25½ - —
Milled titanium dioxide $7.50 per ton higher.
Hydride, cns., works lb. 7.95 - 9.00
Pigment, calcium-rutile base, bgs., c.l., dlvd. lb. .08¾ - —
l.c.l., dlvd lb. .08⅞ - —
Tetrachloride, tech., dms., c.l., works lb. .40¾ - —
l.c.l., works lb. .43¾ - —
tanks, works lb. .39¾ - —
dl-a-Tocopherol, bots kilo 149.65 - —
Acetate, bots kilo 136.00 - —
o-Tolidine base, dist., kgs. lb. 1.30 - —
Tolu balsam, cns. lb. 4.25 - 4.50
Toluene (see Toluol).
p-Toluenesulfonamide, flake, dms., frt. alld lb. .64 - .66
powd., dms., works lb. .70 - —
solid, dms., frt. alld lb. .61 - —
m-Toluidine, dms., c.l., works, frt. alld lb. .79 - —
l.c.l., same basis lb. .80 - —
tanks, same basis lb. .78 - —
o-Toluidine, dms., c.l., works, frt. alld lb. .23 - —
l.c.l., same basis lb. .24 - —
tanks, same basis lb. .22 - —
p-Toluidine, flake, dms., frt. alld lb. .64 - —
solid, dms., frt. alld. lb. .60 - .61
Toluol, coaltar, indust. or nitration, tanks, works:—
Bethlehem, Pa. gal. .34 - —
Birmingham dist. gal. .32 - —
Chicago dist. gal. .35 - —
Cleveland dist. gal. .32 - —
Geneva, Utah gal. .26 - —
Johnstown, Pa. gal. .32 - —
Toluol, coaltar, indust. or nitration, tanks, works:—
Lackawanna, N. Y. gal. .35 - —
Lone Star, Tex. gal. .33 - —
Lorain, Ohio gal. .32 - —
Middletown, Ohio gal. .33½ - —
Minnequa, Colo. gal. .32 - —
Philadelphia district gal. .34 - —
Pittsburgh dist gal. .32 - —
Sparrow's Point, Md gal. .34 - —
Terre Haute, Ind gal. .35 - —
Youngstown, Ohio gal. .32 - —
petroleum, indust., 2° tanks, works:—Albany, N. Y. gal. .35 - —
Bayonne, N. J. gal. .34 - —
Baytown, Tex. gal. .33 - —
Chicago, Ill. gal. .35 - —
Detroit, Mich. gal. .35 - —
Houston, Tex. gal. .33 - —
Philadelphia, Pa. gal. .34 - —
Providence, R. I. gal. .35 - —
Wood River, Ill. gal. .25 - —
2-4 Tolylenediamine, cryst., fib. cms., frt. alld. lb. .94 - —
powd., fib. dms., same basis lb. 1.00 - —
Tonka beans, Angostura, cks. lb. 1.65 - 1.80
Brazilian, Surinam, cs. lb. 1.00 - 1.25
Totaquine, 100-oz. lots, cns. oz. .42 - —
Toxaphene, dms., c.l., t.l., works. lb. .20 - —
l.c.l., t.l., works lb. .26 - —
Triacetin, dms., c.l., dlvd. E, of Rockies lb. .39 - —
l.c.l., same basis lb. .40 - —
tanks, same basis lb. .37 - —
Tributyl citrate, tech., non-ret, dms., c.l., frt. alld. E, of Denver lb. .42 - —
l.c.l., frt. alld. E of Denver, lb. .43 - —
tanks, frt. alld. E of Denver, lb. .40 - —
Phosphate, dms., c.l., works lb. .52 - —
l.c.l., same basis lb. .53 - —
tanks, same basis lb. .50 - —
Tributylamine, cms., c.l., works lb. .67 - —
l.c.l., same basis lb. .68 - —
tanks, same basis lb. .65 - —
Trichlorobenzene, dms., c.l., works, frt. alld. E lb. .14½ - —
l.c.l., frt. alld. E lb. .15½ - —
tanks, frt. alld. E lb. .13 - —
Prices in the West 1¾c. higher.
Trichloroethylene, dms., c.l., or t.l., works, frt. equald lb. .11¼ - —
l.c.l., dlvd. E lb. .13½ - —
tanks, works, frt. equald lb. .10¼ - —
Trichloroethane, dms., c.l., works, lb. .13 - —
l.c.l., works lb. .13½ - —
tanks, works lb. .11½ - —
Tricholine citrate, 65% soln., ret. cbys., works, frt. adjusted lb. 1.40 - 1.45
Tricresyl phosphate, coaltar, dms., c.l., dlvd lb. .35 - —
l.c.l. dlvd. lb. .36 - —
tanks, dlvd lb. .33 - —
dms., c.l., dlvd. lb. .35 - —
l.c.l. dlvd lb. .36 - —
tanks, dlvd lb. .33 - —
Triethanolamine, dms., c.l., dlvd. E lb. .24 - —
l.c.l., same basis lb. .25 - —
tanks, same basis lb. .22 - —
Triethylamine, dms., c.l., works, dlvd. E lb. .47 - —
Tricresyl phosphate, petroleum, c.l., same basis lb. .48 - —
tanks, same basis lb. .45 - —
Triethyl citrate, refd., tech., non-ret, dms., c.l., frt. alld. E, of Denver lb. .45¾ - —
l.c.l., frt. alld. E of Denver, lb. .46¾ - —
tanks, frt. alld. E, of Denver, lb. .43¾ - —
Phosphate, dms., c.l., works lb. .38 - —
l.c.l., same basis lb. .39 - —
tanks, same basis lb. .37 - —
Triethylene glycol, dms., c.l., dlvd. E, lb. .20½ - —
l.c.l., same basis lb. .21½ - —
tanks, same basis lb. .18½ - —
Triethylenetetramine, dms., c.l., dlvd. E lb. .49 - —
l.c.l., dlvd. E lb. .50 - —
tanks, dlvd. E lb. .47 - —
Tri-isopropanolamine, dms., c.l., dlvd. E lb. .22¾ - —
l.c.l., dlvd. E lb. .23¾ - —
tanks, dlvd. E lb. .20¾ - —
Trimethylamine, 25-30% soln., dms., c.l., works, frt equald., 100% basis lb. .42 - —
l.c.l., works, frt. equald, 100% basis lb. .42½ - —
tanks, works, frt. equald, 100% basis lb. .33 - —
Trioxane, pure, dms., c.l., t.l., dlvd. E lb. .50 - —
l.c.l., dms., dlvd. E lb. .51½ - —
Tripentaerythritol, bgs., l.c.l., works. lb. .35 - —
Triphenyl phosphate, bbls., c.l., frt. equald lb. .40 - —
l.c.l., frt. equald lb. .41 - —
Triphenylguanidine, bbls., works lb. .90 - —
Tripropylene glycol, dms., c.l., frt. alld. E lb. .20½ - —
l.c.l., frt. alld. E lb. .21½ - —
Prices 1c. per lb. higher in West.
Trisodium fluoroacetate (see Sodium fluoroacetate, tribasic).
Phosphate (see Sodium phosphate tribasic).
Trypsin, pharmaceutical, 1:75, dms., works lb. 6.25 - —
dl-Tryptophane, fib. ctns., works. kilo 165.00 - —
Tungsten metal, powd., 96.8%, dms., dlvd. lb. 4.35 - 4.40
Turpentine, gum (see Protective Coatings market, Naval Stores).
Tyrothricin, USP, bots gram .75 - .85

U

Unicorn root, false (see Helonias root).
True (see Aletris root).
Urea, 46% N, indust., bgs., c.l., t.l., dlvd. E ton 120.00 - —
l.c.l., dlvd. E, ex whse. ton 140.00 - —
45% N, agricultural, bgs., c.l., (30 tons), dlvd. E ton 105.00 - —
Urea-ammonia liquor, A and B grades, N basis, tankcars, Belle, W. Va. ton 126.00 - —
Urea-ammonia liquor, C grade, tankcars, same basis ton 124.50 - —
37 grade, tankcars, same basis, ton 153.00 - —
Urethane, USP, dms lb. 1.50 - —
Uva ursi leaves, bls lb. .12 - .14

V

Valerian root, Belgian, bgs. lb. .35 - .40
dl-Valine, dms., works lb. 21.00 - 27.50
Valonia beards, 40-42% tannin, bgs., exdock ton 70.00 - —
cups, 28-30% tannin, bgs., exdock ton 50.00 - —
extract, powd., 63% tannin, bgs., ex-dock, duty extra lb. .07¾ - —
Vanadium pentoxide, tech., dms., works lb. 1.28 - 1.33
Vanilla beans, Bourbon, tins lb. 6.50 - 7.00
Mexican, cuts, tins lb. 7.75 - —
whole, tins lb. 8.50 - —
Tahiti, cs. lb. 6.00 Nom.
Vanillin, ex eugenol, tins, 25-lb. lots. lb. 6.50 - 6.75
smaller lots lb. 6.90 - 7.25
ex lignin, dms., 25-lb. lots lb. 3.00 - —
smaller lots lb. 3.05 - 3.15
Vinyl acetate monomer, 55-gal. dms., c.l., dlvd. E lb. .18½ - —
l.c.l., dlvd. E lb. .19½ - —
tankcars, dlvd. E lb. .16½ - —
tanktrucks, dlvd. E lb. .17½ - —
n Butyl ether, tech., dms., c.l., works lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —
Chloride monomer, tanks, frt. equald lb. .10½ - —
Ether, USP, anesthesia, bots., 50 c.c., hospitals, hot 1.12 - —
75 c.c. hot 1.56 - —
Ethyl ether, tech., dms., c.l., works lb. .26 - —
l.c.l., works lb. .28 - —
tanks, works lb. .25 - —
Isobutyl ether, tech., dms., c.l., works lb. .28 - —
l.c.l., works lb. .30 - —
tanks, works lb. .27 - —
Methyl ether, cyls., works lb. .23 - —
tanks, works lb. .20 - —

Cylinders are sold outright, or if shipped against deposit, a free period of 60 days is allowed; and if empties are returned prepaid and in good condition within that period, full refund is made.

Trichloride (see Trichloroethane).
2 Vinylpyridine, dms., works lb. 1.40 - 1.50
Vinyltoluene, dms., c.l., frt. alld. lb. .19¼ - —
l.c.l., frt. alld. lb. .20¼ - —
tanks, frt alld. lb. .18 - —
Viosterol, in alcohol, 1,000,000 D units per gram, bots., lots of 10 billion USP units, 1,000,000 units. .025 - —
lots of 1 billion USP units, 1,000,000 units. .03 - —
lots of less than 1 billion USP units, 1,000,000 units. .035 - —
in nat., vegetable oil, 400,000 to 1,000,000 D units per gram, bots., lots of 10 billion USP units, 1,000,000 units. .02 - .04¾
lots of 1 billion USP units, 1,000,000 units. .025 - .05¼
lots of less than billion USP units, 1,000,000 units. .03 - .05¾
Vitamin A acetate, syn., crystalline, beads, 500,000 A units per gram gram .07¼ - —
dry, 500,000 units per gram kilo lots kilo 67.50 - —
325,000 units per gram, same basis kilo 43.88 - —
250,000 units per gram, same basis kilo 33.75 - —

Dry vitamin A acetate in less than kilo lots, $2.50 per kilo higher in all potencies.

liq., in oil, 1,000,000 A units per gram, 1,000,000 units. .10 - —
Palmitate, liq., 1,000,000-1,800,000 A units per gram, 1,000,000 units. .10 - —
in oil, 1,000,000 A units per gram, 1,000,000 units. .10 - —
B, (see Thiamine hydrochloride).
B_2 (see Riboflavin).
B, complex, natural (see Rice bran concentrate and Yeast).
B_{12}, crystalline, 1-gram or 5-gram vials gram 245.00 - —
oral grade solids, in containers of 1 and 5 grams of B_{12} activity gram 185.00 - —
C (see Acid, ascorbic).
D (see Oils, codliver and fish-liver, Calciferol, and Viosterol).
D_2, dry, 850,000 units per gram, kilo lots kilo 42.50 - —
less than kilo lots kilo 45.00 - —
E (see a-Tocopherol and Oil, wheat germ).
G (see Riboflavin).
H (see Biotin).
K, Active (see Menadione).
K_1, 25 gram bots gram 4.50 - —
Violet methyl toner (see Blue methylviolet toner).
V.M.&P. naphtha (see Petroleum naphtha).

W

Wahoo root, bark, bls lb. 2.25 - —
Warfarin, 0.5%, dms., 50-lb. lots, dlvd lb. 1.95 - —
25-49-lb. lots, N. Y. or Chicago. lb. 2.05 - —
5-24-lb. lots, cns., N. Y. or Chicago lb. 2.15 - —
Wattle bark, fair average, African, bales, ex dock ton 99.00 - —
merchantable, bales, ex dock ton 96.00 - —
extract, liq., 35% tannin, bbls lb. .09¾ - .10
solid, E. Africa, 60% tannin, bgs., ex dock, duty extra lb. .09¾ - —
S. Africa, 60% tannin, bgs., ex dock, duty extra lb. .10 - —
Wax, amorph, (see Wax microcrystalline).
Bayberry, bgs lb. .43 - .45
Bees, crude, African, bgs lb. .64 - .65
Brazilian, bgs lb. .66 - .67
Central American, bgs lb. .63 Nom.
Chilean, bgs lb. .66 - .67
refd., USP, bleached, white bricks, 100 lb. ctns lb. .73 - .76
slabs, 100 lb. ctns lb. .72 - .75
yellow, bricks, 100 lb. ctns lb. .67 - .69
slabs, 100 lb. ctns lb. .66 - .68
Candelilla, crude, bgs lb. .47 - .48
refd., bgs. lb. .50 - .51
Powdered candelilla, 20 mesh, 7c. per lb. higher, 80 mesh, 7c.; 100-200 mesh, 8c.
Carnauba, chalky, bgs., ton lots. lb. .55 Nom.
North country No. 2, bgs., ton lots lb. .63 Nom.
pure refd., bgs., ton lots. lb. .71 - .73
No. 3, Ceara, crude, bgs., ton lots lb. .56 - .58
refd., pure, bgs., ton lots lb. .65 - .66
tech., bgs., ton lots lb. .62 - .63
Parnahyba, crude, bgs., ton lots lb. .58 - .60
refd. pure, bgs., ton lots lb. .66 - .67
yellow No. 1, Ceara, bgs., ton lots lb. 1.03 - 1.05
Parnahyba, bgs., ton lots, lb. 1.06 - 1.08

Powdered carnauba wax price differentials same as powdered candelilla.

Japan, bgs lb. .42 - .44
Microcrystalline, 170-175°F., m.p. ASTM, penetration 15-20 ctns., 20,000 lbs., group 3, works lb. .13 - .14
smaller lots, same basis, lb. .14 - .15
black, ctns., 20,000 lbs., same basis lb. .11½ - .12½
smaller lots, same basis, lb. .12½ - .13½
Wax, microcrystalline, 170°-175°F., m.p., ASTM, penetration 15-20 ctns., white, ctns., 20,000 lbs., same basis lb. .24 - .25
smaller lots, group 3, works lb. .25 - .26
180°-185°F. m.p., ASTM, penetration, 7-11; amber, ctns., 20,000-lb. lots, same basis, lb. .16 - —
smaller lots, same basis, lb. .17 - —
black, ctns., 20,000 lbs., same basis lb. .14½ - —
smaller lots, same basis, lb. .15½ - —
white, ctns., 20,000 lbs., same basis lb. .27 - —
smaller lots, same basis, lb. .28 - —
190°-195°F., m.p., ASTM, penetration 2-7, amber, ctns., 20,000 lbs., same basis lb. .20 - —
smaller lots, same basis lb. .20½ - —
black, ctns., 20,000 lbs., same basis lb. .18 - —
smaller lots, same basis, lb. .18½ - —
white, ctns., 20,000 lbs., same basis lb. .33½ - —
smaller lots, same basis, lb. .34½ - —
Montan, dom., refd., bgs lb. .27 Nom.
imp., crude, bohemian, bgs lb. No prices.
German, bgs. lb. No prices.
Ouricury, refd., pure, bgs. lb. .85 - .88
tech., bgs lb. .80 - .82
Paraffin (see P).
Spermaceti, blocks, cs. lb. .30 - .33
cakes, cs. lb. .31 - .34
Sugar cane, dom., refd., slabs, works lb. .65 - .75
spot .67¼ - .72¼
White lead (see Lead, white).
White pine bark, rossed, bls lb 18 - 19

—Continued on page 52

White precipitate, USP, powd., dms. lb. 6.55 - —
Whiting (see Calcium carbonate).
Wild cherry bark, thin, nat., bls. lb. .18 - .19
rossed, bls lb. .19 - .21
Witch hazel bark, bls. lb. .16 - .17
leaves, bls. lb. .20 - .21
Wollastonite, fine, bgs., c.l., works. ton 39.50 - —
l.c.l., ex whse ton 56.00 - —
medium, bgs., c.l., works ton 27.00 - —
l.c.l., ex whse ton 44.00 - —
Woolfat, crude (see Degras).
USP (see Lanolin).
Wormseed, American, bgs lb. .20 - .29
Levant, bgs lb 4.25 - 4.50

X

Xylene (see Xylol).
Xylenol, cryst., 58° 60°C., m.p., dms., l.c.l., works lb. .40 - —
56°-58°C., dms., l.c.l., works, frt. equald lb. .30 - —
45°-47°C., dms., c.l., same basis. lb. .212 - —
l.c.l., same basis lb. .215 - —
tanks, same basis lb. .199 - —
fraction, b.r. 7°-9°C., dry above 227°C., dms., c.l., same basis gal. .96 - —
l.c.l., same basis gal. .99 - —
tanks, same basis gal. .85 - —
dry at or below 227°C., dms., c.l., same basis gal. 1.11 - —
l.c.l., same basis gal. 1.14 - —
tanks, same basis gal. 1.00 - —
Xylidines, mixed, dms., c.l., truckload, works lb. .39 - —
l.c.l., same basis lb. .40 - —
tanks, same basis lb. .38 - —
Xylol, coaltar, indust., tanks, works:—
Bethlehem, Pa. gal. .34 - —
Birmingham district gal. .32 - —
Chicago district gal. .35 - —
Cleveland district gal. .34½ - —
Geneva, Utah gal. .27 - —
Johnstown, Pa. gal. .33 - —
Lackawanna, N. Y. gal. .35 - —
Lone Star, Tex. gal. .33 - —
Lorain, Ohio gal. .33 - —
Middletown, Ohio gal. .34 - —
Minnequa, Colo. gal. .34 - —
Philadelphia district gal. .34 - —
Pittsburgh district gal. .32 - —
Sparrows Point, Md. gal. .34 - —
Terre Haute, Ind. gal. .35 - —
Youngstown, O. gal. .32½ - —
petroleum, indust., tanks, works:—
Bayonne, N. J. gal. .34 - —
Baytown, Tex. gal. .33 - —
Chicago, Ill. gal. .35 - —
Philadelphia, Pa. gal. .34 - —
Providence, R. I. gal. .35 - —
Wood River, Ill. gal. .35 - —

Y

Yara yara, cns lb 2.15 - 2.65
Yeast, brewer's, dry, USP, 50 Int'l B units per gram, 100-lb. dms lb. .47 - —
90 Int'l B units per gram, 100-lb dms lb. .52 - —
200 Int'l B units per gram, 100-lb dms lb. .56 - —
300 Int'l B units per gram, 100-lb dms lb. .60 - —
Yellow, barium chromate, CP, bbls., dlvd. N. of Tenn. and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island, St. Louis, St. Paul lb. .35 - —

Yellow barium chromate price differentials in other States and city zones are those for chrome yellow below.

Benzidine AAA, bbls., dlvd. lb. 2.00 - —
AAOT, bbls., dlvd. lb. 2.25 - —
Lightfast, bbls., dlvd. lb. 3.15 - —
Cadmium, CP, all shades, bbls., frt. alld. E. of Rockies lb. 2.85 - —
Lithopone, all shades, bbls., frt. alld., E. of Rockies lb. 1.15 - —

Cadmium yellows, Los Angeles and San Francisco, ex whse., 1c. per lb. higher.

Chrome, CP, bbls., dlvd. N. of Tenn., and N. C., E. of Miss., including Davenport, Minneapolis, Rock Island lb. .32 - —

Dlvd. Ala., Fla., Ga., La. (Shreveport 1¼ higher); Miss., N. C., S. C., Penna., Dallas, Tex. 1¼c. higher; Ft. Worth, Tex. 1½c. higher; El Paso, Tex. 2c. higher; Cedar Rapids, Des Moines, Kansas City, Lincoln, Omaha, St. Joseph 1.6c. higher; dlvd. Pac. Coast, for Denver, Pueblo, Salt Lake City, Wichita prices are equalized with Chicago.

Hansa 10 G, bbls., same basis as yellow, chrome lb. 2.15 - —
G pigment, bbls lb 1.91

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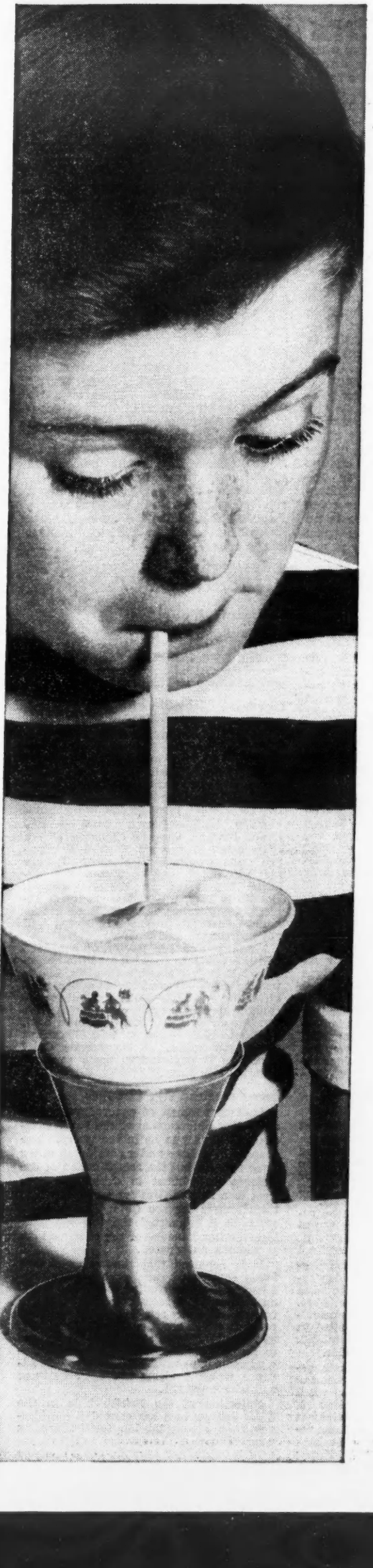

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Physical Fitness Sought

It is unfortunate that, apparently, business as such is not to have an active part in the conference on physical fitness of youth to be held this week pursuant to the initiative of President Eisenhower. Business certainly has an important and imperative interest along the lines of the concern expressed by the President in the fitness of youth, also in his proposal that more should be done "to help our young people become physically fit and therefore better qualified in all respects to face the requirements of modern life." As a contributory factor in progressive, profitable business operations, physical fitness of personnel is over all at least as essential as is mental capability.

According to published reports, the President invited 139 persons to the conference, comprising athletes, public officials, civic leaders, and educators. The published lists did not identify all the civic leaders. It is to be hoped that that selected group will be as representative of business as is civic leadership in practically all communities. The attaining of the President's objective must in largest part be promoted by business—as must the meeting of all human needs. The other groups asked to participate in the conference have their respective roles in the forming and following of programs. But, business must—at least most wisely should—provide the necessary wherewithal.

The data on the physical fitness of youth presented in the records of the armed services since the first demands of World War II have astonished and puzzled all who have seen any part of them. It was always the popular belief that the people of this country were of substantial physical superiority; that the young were strong and healthy in every respect—with due allowance, of course, for those who were handicapped by unfavorable environment, natural or man-made. The "draft" data have smeared a lot of blue over the rosy tints of that picture.

It must wholly be surmised what sort of a relief program will come out of this week's conference. Naturally, it will not be a simple matter to correlate or coordinate the views of professional athletes and those of public welfare leaders. It is not easy to see just where opinions in physical medicine and rehabilitation will fit in with the knowledge of the need for a desire for constructive exercise and the bigger, somewhat promotive need for facilities for such exercise. Behind that lies a variety of theories on what is constructive exercise. There is also the underlying question of the value of incentives and the effects of incentive policies.

No doubt there is a reason why the Vice-President, rather than the Secretary of Health, Education, and Welfare, will preside at the physical fitness conference. It is not easy to see why. Certainly the motive is not a political one. It has not been published whether high-ranking representatives of the armed forces will have a part in the conference. They could contribute much, at least with reference to the symptoms of deficiency. Their needs in physically fit youth are on a level with those of business. It is to be hoped and desired that the armed forces and business will communicate their thoughts in the matter to the conference. That could, and probably would be really helpful.

US World Trade Fair

Any businessman who has given the matter more than casual consideration will agree with President Eisenhower that the participation of the United States in trade fairs in other countries this year has been widely beneficial in both directions of foreign trade. Point of sale promotion is good for business under all conditions. The need for something good for foreign trade is steadily becoming more evident. The patterns of world trade are being rapidly changed from those of the rather recent days of impossibility for normal European participation.

All American businessmen should recognize the importance in broad significance of the planning started several months ago for a world trade fair to be held in New York in April, 1957. Political and business representatives of almost fifty foreign countries have manifested an interest in possible participation in that fair. It is being backed by city, state, and federal commercial agencies and an increasing number of business organizations. The primary purpose of the fair is announced to be an exhibition and mart for foreign manufacturers, with the objective of promoting the sale of foreign goods and services in this country as a means of fostering international trade. The primary arrangement of the exhibits will be by products rather than by geographic divisions, twenty-two sections being planned.

Insofar as any information has been made generally available, the extent to which United States manufacturers will have a part in the world fair is not definite. There is food for a deal of serious thinking in that direction in the fact that about a week before the deliberations on the United States fair were started the Canadian government announced the discontinuance of the international trade fair which had been a big event in Canadian business activities for eight years. According to the Trade Minister, the reason for the government's action was that the fair "had not come up to expectations as a medium for promotion of Canadian exports." It may be that Canadian business organizations will continue the international fair without governmental backing. They will not be wise in doing so if they have the expectations mentioned by the minister. The place to sell goods in world trade is in a fair in the country of the potential or desired customers, not in that of the sellers.

That, however, does not determine the potential value of a trade fair in the development of two-way trade. It provides an excellent opportunity for getting acquainted with what the other country has, and from that can be drawn a fairly reliable assumption as to what it needs, or wants, to get elsewhere. Such a fair also provides a means of getting acquainted with businessmen from other countries who more or less directly present opportunities for bartering. In the present status of world trade, bartering is one of the biggest factors in its development. That is the big reason why the United States share of that trade is shrinking while that of other countries is growing. The United States fair in 1957 can be usefully informative and actually helpful in that connection.

Public Relations Is Big

There is a promise of much good for business in the increasing interest being taken by top executives in the public relations of their firms. That good will come progressively in keeping with the recognizing of the largely disregarded fact that the relations of a business house with the public are based on deeds, not words: that they run both ways; and that the real criterion for their evaluation is the reaction of the public to what the company is doing for, with, and to the public.

That evaluation cannot be determined by way of any theories on the benefits of public information. It must be sought first by way of the practical application of the rule of look, listen, and learn. The looking and listening can be done by advisers. The learning must be done through them by the only one who can do any directing of public relations—the executive who directs the policy and the practice of the business in its contacts with the public. The most useful talking in the matter is that done by the public, not that done to the public.

The field of public relations comprises three areas—(1) the neighboring public; (2) the purchasing public; (3) the talking public. The primary or the relative importance of any one of those areas is never the same as that of any other one—and it can and does change continuously. Good relations in the first area derive wholly from neighborliness. In the second area, they come from satisfactory service. There is no general rule applicable to the third area: it is impossible to say why people talk in any given manner; but it is not particularly difficult to ascertain why they express certain views on any given subject, including the reputation of a business concern. The reasons for their views can be found by anyone who will look in the right places and is not averse to facing facts.

The criterion of neighborliness is the ecologic role of a business in its community. Basic in that are considerateness and helpfulness. The criterion of satisfactory customer or consumer service is a multipartite factor of quality, convenience, and price—things with which business management must deal in many respects. It might be said that the starting point in matters of general public relations or reactions, is the public's concept of a business concern as an economic unit. That concept is drawn from many sources, chief among which is the concern's advertising and the free publicity it gets, especially on its financial affairs. There is nothing conducive to good public relations in the general (talking) area in seeing in print at one place:—"Profits don't absorb higher pay checks—John Q. Public ends up footing the bill," and at another place:—"Corporate profits soar 34 percent in quarter"—to say nothing of the recently numerous news items about "Blank's sales increased 18 percent; net profits were almost three times more."

Publicity—of the right kind—has a relatively minor role in public relations. Publicity can and often does do more harm than good in that connection. Deeds count.

Washington Talks It Over

By Ralph L. Cherry
Chief, OPD Washington Bureau

The Office of Defense Mobilization is putting the finishing touches on its review of the program inducing industry expansions through tax incentives and will announce soon those expansion goals which will continue to receive the benefits of the program. It is understood that only about a dozen or so expansion programs will be eligible for the tax incentives.

Among those programs expected to be continued are petroleum refining and pipelines construction but on a limited scale; glycerine production; freight car building, and construction of ocean-going tankers. Expansion of aluminum production through tax incentives has been dropped.

The program was put into operation early in 1951 to expand production capacties in industries essential to national defense. Companies expanding their production at the government's request were allowed to amortize the cost of their expansions over five years instead of fifteen to twenty years normally allowed.

When it was temporarily suspended last month, there were applications pending from firms in thirty-eight industries involving about $6,000,000,000 of new capital investment. In the period the program has been in operation industry expansions involving new investments of over $30,000,000,000 have been approved.

Flame Resistance of Fabrics

Department of Agriculture scientists at the New Orleans, La., regional research laboratory have found that by combining two separate processes for improving the flame resistance of cotton cloth, better results have been obtained than when either treatment was used separately.

Both methods of imparting flame resistance to cotton cloth have been previously announced by the department. One, called the "THPC" process, utilized a unique chemical, tetrakis (hydroxymethyl) phosphonium chloride, which reacts with certain other materials to form an insoluble polymer within the fiber. The second process uses a bromoformallyl-phosphate (BAP) material. Applied in emulsion form, it provides an insoluble polymer on the outside of each fiber.

The scientists discovered by their experiments that it is possible to treat the cloth with both these materials and when properly applied, the combination is much more effective than when either is used alone. Furthermore, the flame-resistant finish is highly durable to both laundering and dry cleaning. C. H. Fisher of the Southern Utilization Research Branch, 2100 Robert E. Lee Boulevard, New Orleans 19, La., can supply additional information on the development.

Changing Make-Up of FTC Staff

President Eisenhower will have the opportunity by September next year of replacing the entire Federal Trade Commission with his own appointees—and there is some speculation that he might do it. The speculation is based on the developments of the last month in changes that have taken place on the commission.

When Mr. Eisenhower named commissioner John W. Gwynne chairman of the commission to succeed Edward F. Howrey, who resigned September 7, the fact was noted that he passed over another Republican on the commission, Lowell B. Mason. Mr. Mason's term expires in September, 1956, and some people believe that this means Mr. Mason will not be reappointed.

There is also the matter of the 1956 political elections figuring into the speculation. It is just possible that Mr. Mason will be asked to continue in office until after the elections to see whether the country goes Democratic or not. If it does, Mr. Mason probably will continue until January, 1957, when a new President comes into office. A Democratic Chief Executive is expected to name someone from his own party.

Buy American Act Changes

Another revision of government policy respecting enforcement of the buy American act appears to be in the works. The changes have been under consideration for some months, but the recent action of the Defense department in denying a contract to a British firm for generators and transformers for the Chief Joseph Dam, although it submitted the low bid, may force earlier issuance of the changes than previously anticipated.

It is reported that the major change being considered revolves around a "defense" provision similar to the recently-enacted national security provision in the trade agreements act. The plan would list projects which are "sensitive" or essential to national defense and would close these to foreign bidders. Under this plan, foreign companies would at least know in advance which projects are open to them and which are not.

Rejection of the British bids in the Chief Joseph case has caused a considerable furor among the low tariff advocates who claim that the foreign suppliers regard it as another example of an unstable foreign trade policy.

Heavy Chemicals

Copper chemicals underwent another round of price increases during the week, due to mounting metal costs coupled with strong demand and short stocks. Among the chemicals increased were sulfate, carbonate, cyanide, hydrate, and oxychloride. Copper metal was at present holding steady on spot in the domestic market.

A great number of the alkalies were scheduled for increases on spot and contract effective October 1. These materials included caustic soda, soda ash, sodium bicarbonate, sodium sesquicarbonate, sodium carbonate monohydrate and sal soda. Calcium chloride, already higher on spot, was also slated for contractual increases. Cylinder chlorine was higher on spot, and all contract chlorine was slated to advance at the beginning of the fourth quarter.

Many of the phosphates were slated for higher prices as well. Phosphoric acid was scheduled to advance, as were mono and diamonium phosphates, some calcium phosphates, sodium acid pyro and ferric pyrophosphates, and monosodium phosphate duohydrate. Sodium orthosilicate was slated by some producers to advance October 1, but at least two large manufacturers indicated that they would not change prices during the last quarter either on ortho or other silicates.

The American Paper and Pulp Association reported production for the week ended September 17 at 97.7 percent of theoretical capacity, as compared with the revised figure of 76.3 percent for the previous week and 92.3 percent for the corresponding week of last year.

Acid Phosphoric—Prices were scheduled to increase on spot and contract effective October 1. Food grade 75 percent acid will be listed at $5.35 per hundred pounds, tankcars, f.o.b. works, freight equalized; $6.75 per hundred pounds, carboys, carlots, same basis, and $7 to $8 per hundred pounds, less carlots, same basis as to quantity, an advance of 25c. per hundred pounds across the board.

Eighty percent acid is newly listed at $7.60 per hundred pounds, carboys, carlots, freight allowed East, and $7.85 to $9.10 per hundred pounds, less carlots, same basis, as to quantity. NF acid (85 percent) will be quoted at $6.40 per hundred pounds, tankcars, freight equalized, and $8.25, carlots, carboys, same basis. Less carlots will range from $8.50 to $9.75.

Production of phosphoric acid in July dropped sharply, according to preliminary production figures compiled by the Bureau of Census. Output of 197,401 tons was 24 percent below the 261,312 tons produced in June. While the fall-off was partly due to seasonal decrease in demand, trade sources indicated that the Florida phosphate strike had a large part to play.

Acid, Sulfuric—Buying interest remained strong for a number of end uses including steel, rayon, alcohols and pigments. Fertilizer demand was seasonally off. Prices held firm and unchanged, with supplies ample, particularly in view of new facilities coming into production in recent weeks.

Sulfuric acid output in July decreased 11 percent, according to the Bureau of Census. Gross output in July fell to 1,121,908 tons from 1,254,790 tons produced in June.

Estimated steel production last week was 2,309,000 tons, or 95.7 percent of capacity, as against actual output of the same amount during the previous week, and 1,637,000 tons for the corresponding week a year ago.

Ammonium Phosphates — Prices for commercial grade (mono-) and dibasic were scheluled to be increased 35c per hundred pounds, effective October 1, bringing prices to $9 per hundred pounds, carlots, freight equalized.

Calcium Chloride—Contract consumers ordered heavily to get material before prices rose effective on contract October 1. Spot prices were already higher, having gone into effect earlier this month. Demand was generally strong, and supplies were in close balance. It was noted that sizable quantities had been taken in New England to lay silt dust following recent floods in that area.

Calcium Phosphates — Dibasic USP phosphate was scheduled to be increased 50c per hundred pounds across the board, effective October 1, newly quoted at $7.75 per hundred pounds, bags, carlots, f.o.b. works, freight equalized, and $8.50 per hundred pounds, less carlots, same basis. Monobasic was up 50c., quoted at $6.90 per hundred, bags, 10,000 pound lots, same basis and $7.40 per hundred, smaller lots, same basis. Tribasic is scheduled for a 65c.-per-pound advance effective October 1, and will list at $8.25 per hundred pounds in carlots.

Chlorine—Buying interest was strong as consumers bought before the increase in contract prices on tankcar and multi-unit car quantities effective October 1. Cylinder chlorine was already higher on spot, as one company raised spot prices effective September 8.

Effective October 1, tankcar quantities will be listed at $3.05 per hundred pounds, f.o.b. works, freight equalized. Five-car lots in multi-unit cars will be offered at $3.92 per hundred; three cars, $4.12, two cars, $5.12 and one car, $7.12 per hundred pounds, same basis.

Copper Carbonate—Material was raised 1½c. per pound, with other copper chemicals.

Copper Cyanide — Cyanide was raised 2½c. per lb.

Copper Hydrate—Prices were considerably higher following a cumulative increase in copper metal. Hydrate was quoted at 55c. per pound, drums, carlots, freight allowed east of the Mississippi, and 55½c. per pound, less carlots, same basis.

Copper Oxychloride—Prices were increased 5c. per pound due to higher copper, and oxychloride was quoted at 54¾c. per pound, drums, carlots, works and 55¼c. to 65¼c. per pound, less carload quantities.

Copper Sulfate—Sulfate was once again raised last week. CP was raised 40c. per hundred pounds, priced at $21.80 per hundred; 99 percent crystals, up 40c., were listed at $14.90 per hundred in carlots, and $15.40 to $17.90 per hundred pounds, less carlots, bags, works, freight equalized. Monohydrated was quoted at $23.50 in carlots, and $24, less carlots; tribasic was raised $1, scheduled at $32.25 per hundred, carlots, and $33.25 to $36.25, less carlots, as to quantity.

Soda Ash—Demand continued strong. Buyers were active, aware of increases for light and dense ash scheduled for October 1. Dense ash was scheduled to increase to $1.80 per hundred pounds, bags, carlots, f.o.b. works, and light ash, $1.75 per hundred pounds, same basis. Other sodium carbonates were also scheduled to advance, including sal soda, sodium bicarbonate, sodium carbonate monohydrate, and sodium sesquicarbonate.

Soda, Caustic—Liquid grades are slated for a 10c.-per-hundred advance October 1, and solid grades, 25c. per hundred. A producer also announced prices for 2,000-gallon tanktrucks, delivered in the metropolitan New York area. Regular grade 50 percent caustic was raised 15c. per hundred pounds, newly quoted at $4.30 per hundred pounds, with rayon grade 10c. per hundred pounds higher. Producers indicated that the 10c.-per-hundred discount to producers of rayon would continue to apply to rayon grade material, as in the past.

Sodium Orthosilicate—While it was announced last week that this material would be increased 30c. per hundred pounds by two producers, effective October 1, at least two others announced intentions of holding the present line at least until the first of the year. This was done in order to protect contract obligations which specify notice far in advance of changes.

Sodium Phosphates—Acid pyro is slated for an increase of 50c. per hundred pounds on October 1. Sodium ferric pyrophosphate will be advanced $3.50 per hundred on that date. Monobasic duohydrate will be upped 15c. per hundred as well.

Sodium Silicates — Major producers stated that current prices would prevail for the rest of the year, although it was indicated that studies were currently underway on increased packaging, raw ma-

For Late Market Developments, See Page 4

Price Trends

Advanced

Copper carbonate, 1½c. per lb.
Cyanide, 2½c. per lb.
Hydrate, 9¼c. per lb.
Oxychloride, 5c. per lb.
Sulfate, CP, 40c. per 100 lbs.
cryst., 40c. per 100 lbs.
monohydrated, $1 per 100 lbs.
tribasic, $1 per 100 lbs.

Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Sept 24, 1954
99.83	99.75	98.47	98.51

(*For Current Prices see Page 9*)

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terial and labor costs, and that prices would probably go up January 1.

Nonferrous Metals

Aluminum—Another monthly record was set for primary aluminum production in August, according to the Aluminum Association. Output in August rose slightly to 267,101,817 pounds above July's 265,337,163 pounds, and was considerably higher than the 250,592,575 pounds produced in August, 1954.

Total output for the year through August was 2,052,171,990 pounds, as against 1,993,714,005 pounds produced during the corresponding period in 1954. The all-time record quarter in the history of aluminum production was the second of 1955, in which 770,309,784 pounds were produced.

Copper—Metal continued unchanged at 43c. per pound, delivered US destinations. Quotations continued high on the London exchange, with prices strong.

Refined stocks of copper in this country at the end of August showed a substantial increase of 13,057 tons, reaching a total of 49,350 tons, according to the Copper Institute. This was the first increase in end-of-mouth stocks posted since May 31, when an increase of 581 tons was noted. The increase in stocks at the end of August was directly attributable to resumption of output by domestic refiners following a labor dispute.

Lead—Pig lead was increased to 15.3c. per pound St. Louis basis and 15½c. per pound, New York, by one producer late Friday afternoon. Other producers had not followed along at press time.

Mercury — Metal continued scarce. Flasks were priced at $265 to $270 per pound, spot, for small quantities during the week.

Tin—Straits metal was slightly higher at the end of week, quoted at 97⅜c. per pound spot. Tin mills were reported pushing production and shipping rapidly in order to catch up on old contract commitments prior to price advances on tin mill products effective October 1.

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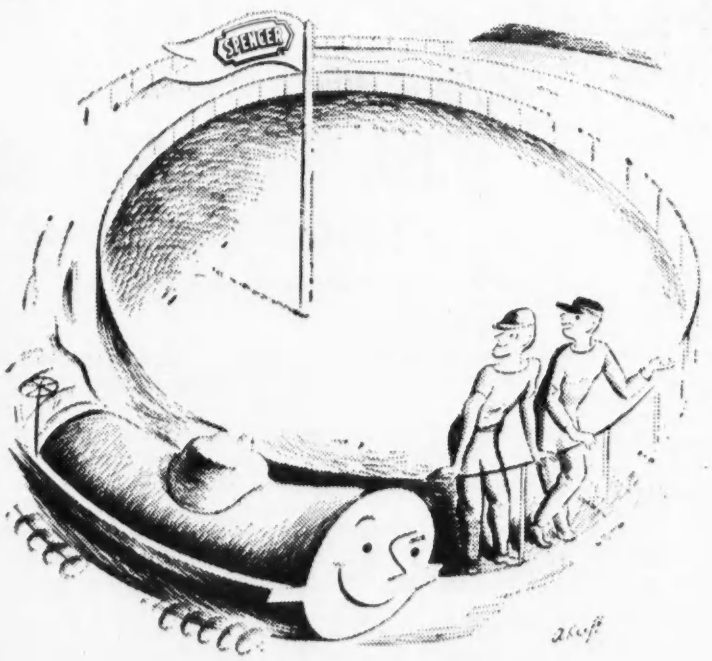

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National Lead Co. Fills Two Magnus Metal Posts

John P. Borda has been appointed general manager of National Lead Company's Magnus Metal Division, and Edward M. Van Winkle has become president of the Magnus Metal Corporation, a subsidiary of National Lead Company, New York. Both positions have been held by William V. Burley, also a vice-president of National Lead Company, who retires on October 1 after thirty-three years of company service.

Mr. Borda served as treasurer of Chicago Bearing Metal Company and Bostwick-Lyon Bronze Company prior to their acquisition by the Magnus Company in 1927. In 1936 this company became a part of the Magnus Metal Division of National Lead. He was appointed assistant general manager of the Magnus Metal Division and was made comptroller and vice-president of the Magnus Metal Corporation in 1939.

Mr. Van Winkle was graduated from Purdue University in chemical engineering; joined American Steel Foundries in 1921. After serving in the industrial division sales department at the Indiana Harbor Works, he was transferred in 1938 to the railroad specialty sales division in New York as sales agent. He became vice-president, eastern sales district, in 1947.

Schering Begins Construction Of Sterile Product Building

A new one million sterile product laboratory and packaging building is under construction at Schering Corporation's Union, N. J., plant. The one and one-half story structure, first unit in a new expansion of Schering's manufacturing facilities, is scheduled for completion early in the spring of 1956.

The main feature of the new building is an area designed and equipped with the newest scientific devices to insure sterility of products from the raw material stage to the finished packaged drug. This is the second new unit to be started in the summer in a $2,500,000 program to expand scientific research and manufacturing facilities.

Reynolds Interests to Buy Aluminum Plant in Canada

Reynolds Metals Company, Richmond, Va., has completed negotiations for the purchase of an aluminum sheet and foil plant at Cap de la Madeleine in Quebec. The announcement came from Reynolds International, Inc., a wholly-owned subsidiary which manages the foreign operations of Renyolds Metals. The purchase is said to involve between $5,000,000 and $6,000,000.

Reynolds will acquire control of the Canadian plant formerly operated by Aluminum Rolling Mills, Ltd., Reynolds Canada, Ltd., with part Canadian ownership, will be formed to run the plant.

P. A.'s-Eye View

—Continued from page 5

supply and high consumer spending are still the predominant ones in keeping inventories at a lower level than might seem justified in such a high production period.

Employment

The employment picture for September reflects the general optimism. Although 60 percent reported employment the same as last month, many added comments like "at the same high level."

Only 6 percent of the committee members indicated that employment was any lower this month than last, and they generally had a plausible explanation which was presented.

Buying Policy

The "minor modifications in buying policy" to protect against price increases and longer deliveries, which were reported last month, continue into the September reports of purchasing executives. No panic, just a desire to be sure that materials needed for production are available and at the best price.

The reports show that 48 percent feel that the ninety-day and over range is the necessary lead time on production materials. On capital goods, 81 percent are in this range. However, on MRO supplies and materials, 71 percent continue to keep purchases on a hand-to-mouth to sixty-day basis, with only 26 percent willing to extend this to a ninety-day interval.

Specific Commodity Changes

Metals again led in influencing the general consensus that industrial prices have not shown any reversal of the upward trend.

On the up side were:—Aluminum, copper, brass, steel, zinc, lumber, paper, rubber, coal, chlorine, rock salt, cement, cium chloride, soda ash, caustic soda, c tric motors, hand tools, ball and roll bearings, building hardware, valves, car tons.

On the down side were:—New cars and trucks.

In short supply were:—Aluminum, copper, nickel, steel, some kinds of paper, titanium dioxide, cement, carbon tetrachloride.

Again this month, a significant number reported price increases and shortages in general categories such as copper items, steel products and special steel sizes and shapes, nonferrous products, rubber goods, chemicals and paper products.

Sodium Hydrosulfite Plant Being Constructed in India

A plant to manufacture hydrosulfite of soda is being constructed for the Bombay Electro-Chemical Industries, Ltd., in Bombay, India, according to a report from the Canadian Department of Trade and Commerce. Part of the daily capacity of five long tons may be used to produce caustic soda and bleaching powder. The machinery will be imported from Switzerland.

43 PLANTS AND WAREHOUSES FROM COAST TO COAST

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Sperry Products Acquires Western Inspection, of Texas

Acquisition of Western Inspection, Inc., Midland, Tex., by Sperry Products, Inc., Danbury, Conn., has been announced by Sperry president J. B. Farwell. The announcement explains that Western Inspection will become Sperry Western, Inc., with offices remaining in Midland and Odessa, Tex., and in Lake Charles, Lafayette and New Orleans, La.. James H. Binford of Western continues as president, with R. B. Manning, of Sperry, named vice-president and treasurer and D. W. Gordon secretary and assistant treasurer.

Obituaries

George M. Armor

George Maxwell Armor, retired vice-president of McCormick & Co., Baltimore, died September 16 in that city. He was eighty years old. Mr. Armor retired last December after fifty-six years with McCormick.

Francis A. Countway

Francis A. Countway, former president of Lever Brothers Company, New York, died in Boston September 19. He was seventy-nine years old.

Mr. Countway began his career as salesman for Curtis Davis & Co. and joined Lever Brothers in 1898. He advanced from auditor in 1901 to manager and treasurer in 1912 and then the presidency in 1913. He retired in 1946.

C. Wilbur Miller

C. Wilbur Miller, former president of Davison Chemical Company, Baltimore, Md., now a division of W. R. Grace & Co., New York, died September 21 in Baltimore. He was seventy-seven years old. Mr. Miller was former chairman of the board of Jefferson Lake Sulphur Company and former head of Silica Gel Corporation.

Fraser D. Reid, director and consulting engineer for Coniagas Mines, Ltd., died September 22 in Toronto. He was seventy-four years old. A former vice-president of Coniagas, he had been a director of Gunnar Gold Mines, Ltd., and Eldorado Mining & Refining, Ltd.

William A. Tranter, assistant chief chemist at American Smelting & Refining Company, Perth Amboy, N. J., died September 19 in that city. He was sixty-one years old.

Lewis E. Van Leuven, retired official of the Socony Mobil Oil Company, New York, died on September 17 in Summit, N. J. He was seventy-six years old.

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Textile and Leather Chemicals

Steady improvement was noted in consuming demand since the first of the month. Consumers continued to absorb a good volume of textile and leather chemicals for prompt needs and also showed a good inquiry for later requirements. Market tone remained steady. Prices were without change, except egg derivatives. Egg albumin was stronger and was sharply advanced due to the higher cost of eggs. Yolk also was firmer and higher.

Trading in potato starch was more active, with consumers placing orders of good volume for October-January delivery at fractionally lower prices. Offers were liberal for forward delivery as a result of a bumper potato crop. Buying interest in tapioca flour replacements continued active for prompt and later shipment. Prices were unchanged and firmly held. Other sizing materials were in moderate request.

Tanners continued to take limited lots of tanning materials for prompt shipment, though interest in futures has improved. Shipments were unchanged, reflecting the steadiness of primary markets.

Producers of rayon and acetate shipped 107,500,000 pounds of yarn, staple and tow during August, 14 percent more than July and 19 percent above the 90,100,000 pounds in August, 1954, according to the Textile Economics Bureau. Shipments in August consisted of 106,000,000 pounds for domestic consumption and the balance for export. Shipments of rayon and acetate for the first eight months of 1955 aggregated 845,300,000 pounds, a gain of 19 percent over the 707,400,000 pounds shipped in the corresponding period of 1954.

High tenacity rayon shipments in August totaled 39,000,000 pounds, the highest monthly total since July, 1953, when 39,900,000 pounds were shipped. Stock in producers' hands at the end of the month remained at the low figure of 5,200,000 pounds, or a three-day supply, compared with 19,100,000 pounds at the end of August, last year.

Mills during August (25 working days) consumed 717,227 running bales of cotton, compared with 566,640 bales in July (22½ working days) and 667,762 bales in August last year (24 working days), according to the Census Bureau.

Chemicals

Bichromates—Consuming demand was quite active against current contracts. Spot demand was reported moderate. All grades were well held at former levels.

Sodium Acetate—Moderate sales were noted for actual needs. Quotations were maintained at former levels.

Sodium Hydrosulfite—Good volume of business was reported for prompt requirements. Market was quotably unchanged and steady.

Sulfonated Oils—Moderate demand was noted for all varieties. Prices were unchanged and steady.

Sizing Materials

Albumin Blood — Consuming demand was reported fairly active for actual needs. Market was unchanged and steady at 65c. to 80c. per pound, according to quantity.

Corn Dextrin — Steady consuming demand was noted for all grades. Prices were well held at former levels. Gum was quoted at $9.15 per 100 pounds, paper bags, carlots, New York delivery; canary, $8.89; dark $8.99 and white $8.73, same basis. Smaller quantities were 15c. per 100 pounds higher.

Corn Starch—Improved buying interest was reported for prompt needs. Market remained steady at prevailing quotations. Pearl was quoted at $7.24 per 100 pounds, paper bags, carlots, New York and powder, $7.39, same basis. Lesser quantities were 15c. per 100 pounds more. Visible corn supply was increased 669,000 bushels to 20,285,000 bushels, for the week ending September 16, compared with 15,427,000 bushels for the corresponding week last year, according to the Chicago Board of Trade.

Egg Albumin—Increased cost of eggs further stiffened this market. Quotations were lifted sharply for flake and powder. Flake advanced to $1.80 to $1.85 per pound, and powder, to $1.84 to $1.89 per pound, spot delivery. Business was active before the higher prices became effective. Technical remained unchanged, but was steady at 70c. to 85c. per pound, depending upon seller and quantity.

Price Trends

Advanced

Egg albumin, flake, 5c. to 12c. per lb.
powder, 5c. to 12c. per lb.
Yolk, 5c. per lb.

Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Sept. 24, 1954
104.27	104.26	105.39	94.56

(For Current Prices see Page 9)

Egg Yolk—Increased cost of eggs also strengthened this market and prices were lifted to $1.09 to $1.13 per pound, as to quantity and seller. Consuming demand was active before the advance, though consuming inquiry continued fairly active.

Potato Starch—Consumers continued to show active interest in forward requirements. Good volume of business was indicated at 5¾c. per pound, carlots, f.o.b. mills, Maine for October to January delivery, which was ¼c. below asking prices a week ago. Interest in immediate shipment was light and small stocks available at mills were nominal around 7c. per pound, same basis. While futures were lower, supplies tight on spot and maintained at 9c. to 9¼c. per pound, exwarehouse, according to quantity.

Sago Flour—While demand was light and spotty, the market remained steady. Stocks on spot were maintained at present prices. Raw was held at 6½c. to 6¾c. per pound, and refined, 8¼c. to 8¾c. per pound, exwarehouse, as to quantity.

Tapioca Flour — Offers for shipment from Brazil were well held at 6¼c. per pound, carlots, exdock. Consuming inquiry and trading of late has been quite active. Producers were less disposed to shade asking prices. Supplies on spot were in fair request and held at 7¾c. to 8¼c. per pound, exwarehouse, according to quantity.

Tanning Materials

Leather production in July was lower than in June it was reported by Tanners Council. Cattle hide leather totaled 1,672,000 hides compared with 2,219,000 in June; calf and whole kid skins, 1,823,000 against 2,349,000 and sheep and lamb skins, 1,554,000 against 2,243,000.

Chestnut Extract—Tanners continued to purchase moderate lots of domestic and imported material for prompt delivery. Prices were without change and well held. Liquid 25 percent tannin was quote at 4c. per pound, tankcars, f.o.b. works; 4¾c. per pound, barrels, carlots, and 5.10c. barrels, less carlots; powdered 60 percent tannin, 10.32c. per pound, bags, carlots, and 11.02c. bags, less carlots, same basis.

Cutch—This market remained steady. Consuming interest was active in replacements from primary sources. Shipments were maintained at 8½c. per pound, exdock, plus duty.

Mangrove Bark—Trading was fair, chiefly for prompt shipment. Market remained steady at prevailing prices. African bark was offered at $69 to $71 per ton, ex dock. Colombian bark was unchanged at $58 per ton, ex dock, and Ecuadorian $55 per ton, same basis, prompt shipment.

Myrobalans—Buying interest was moderate, with trading restricted to prompt shipment. Assorted JI's were quoted at $58 per ton, ex dock, for prompt shipment; crushed, $82, and Bombay, $55, same basis. Extract was nominal at 10c. to 10¼c. per pound, exdock, plus duty.

Quebracho Extract — Buying interest was affected by the political disturbances in Argentina. Market was nominal and quotably unchanged for replacements. Solid ordinary guaranteed 63 percent tannin was offered at 12 21/32c. and clarified 64 percent was 12 23/64c. per pound, exdock, plus duty.

Sumac — Consuming interest in sumac leaves was reported slow. Shipments were fairly steady and unchanged. Extract, spray powder 50 percent tannin was unchanged at 21c. per pound, carlots, exdock, plus duty.

Wattle — Business continued spotty, chiefly for prompt shipment. Primary market was unchanged and steady. Fair average bark was quoted at $99 per ton, exdock, and merchantable, $96, same basis, prompt shipment. East African extract was held at 9¾c. per pound, and South African, 10c., exdock, plus duty.

For Late Market Developments, See Page 4

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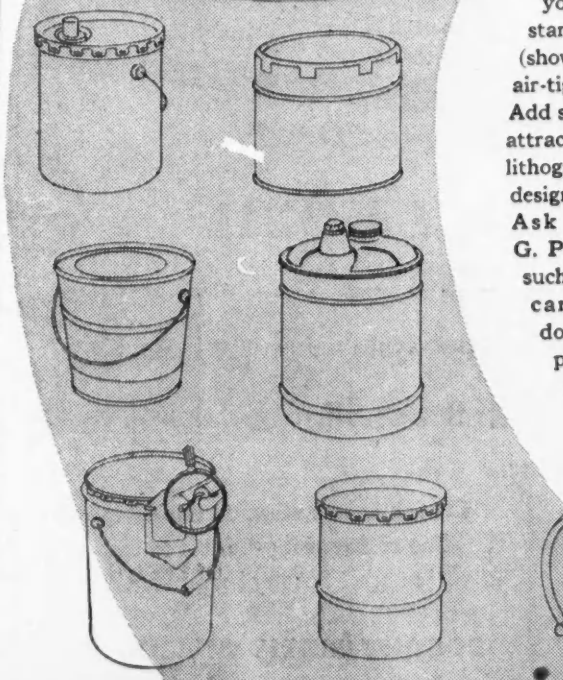

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End Point, °F...	465	465	—
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Flash Point, TCC, °F...	145	145	140
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Petroleum Derivatives

Balance of trade figures compiled by the Bureau of Commerce show that imports of petroleum and products outweigh exports by better than two to one. Embracing the first six months of the year, the statistics show that $498,000,000 of petroleum and products was brought into the country while $213,000,000 was exported.

The figures show a slight shift from those of last year, in favor of the foreign producers. Last year's statistics for the same period showed imports at $407,000,000 and exports at $218,000,000.

The interim period, July to December of last year, showed imports of $421,000,000 and exports of $213,000,000.

Propane continued to climb in sales, in spite of the lagging west coast. Sluggishness of sales in the west are attributed to continued hot weather in the area. Seasonal lines are beginning to make themselves strongly felt, with summer products dropping off sharply in sales, while heating and other winter and fall materials continue to spiral upward.

Solvents and Diluents

Benzol—Business followed more or less anticipated patterns this month, increasing at a slow rate, according to some producers. Stocks were reported still quiet, but production increased on a level with the sales increases. Plastic manufacturers were the consumers considered most responsible for any sales rises present. The outlook is expected to continue unchanged for the next few weeks, according to sources. No price changes have been listed.

Cleaners Naptha—Business for the month and week is considered normal, though the summer months have left their mark upon this product. Most producers have conceded that with the blow dealt them by the heavy use of synthetic material in clothing during the summer months, they will have to work to push more material during the colder seasons. Prices remained unchanged at prevailing levels.

Heptane—The market outlook for sales of both heptane and hexane was somewhat unstable during the past week. The situation was one of inaccuracies and probabilities, some sources indicated. Clarification of the situation was said to be completely dependent upon the actions of government and military buyers. If military demands increase, most producers believe that the market will be greatly strengthened. Prices remained steady.

Partial Aromatics—Demand for most partial aromatic solvents held up fairly well during the week, though a continued weakness is being shown in the buying of the automotive industry. However, the continued growth in usuage of this product remains the prime factor in its healthy sales picture. Listings appeared firm, without indicating a pending change in either direction.

Toluol—This aromatic was said to be moving at a slow but steady pace. Government buying of aviation gasoline was reported up slightly while commercial airline demand showed a minor decline. The commercial decline was attributed to a growth in the use of jet propulsion, a factor that has had a heavy bearing on the government market. With such a vast quantity of the government sales already shifted from toluol to jet fuels, and the commercial sales following suit, producers question what lies in the future. There were no price changes.

Xylol—Industrial consumers maintained an active interest in this material with the result that orders were considered at a very good level, industry sources observed. However, stocks were high, and not moving fast enough to hold on a level with production. Xylols status as a more or less universal solvent was said to be the reason for the fairly good position of this market. No price changes were noted.

Crude Oil Stocks

Stocks of domestic and foreign crude petroleum at the close of the week ended September 10 totaled 255,645,000 barrels according to data reported to the Bureau of Mines. Compared with the total of 259,362,000 barrels for the preceding week this represents a decrease of 3,717,000 barrels comprising a decrease of 3,909,000 barrels in stocks of domestic crude and an increase of 192,000 barrels in stocks of foreign crude.

Price Trends

Advanced

None

Reduced

None

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Sept. 24, 1954
104.32	104.32	104.32	104.42

(*For Current Prices see Page 9*)

Lighter Fractions

LPG's—This market is moving into one of its seasonal high points, in spite of sluggish sales on the west coast, it was reported. With the elevated prices in area three toward the end of August, and the hiked prices on the Eastern seaboard at the first of the month, the pace has been set for a heavy sales season. One producer noted that markets are shortly expected to broaden in various areas (particularly the upper midwest) because of the development of cheap pipeline transportation and the expansion of fuel outlets.

Waxes

Microcrystalline—Demand for this product last week was considered good with production capacity tight by expanding. Export sales remained a major factor in the good sales picture, with domestic sales also standing up well, it was reported. The falling off of seasonal hot weather sales has failed to leave a mark upon the market. This is considered to be a excellent sign by most producers on the health of the market as a whole. There were no price changes noted.

Paraffin—High point melting point paraffin showed a good demand during the week, particularly in the west, with supplies continuing adequate, it was reported. Production is up on stocks enough to cover any demand. There were no quotation changes.

Miscellaneous

The daily average production of crude oil and lease condensate for the week ending September 9, 1955, was 6,655,250 barrels, according to estimates of the American Petroleum Institute. Reports received from refining companies indicate that the industry as a whole ran to stills of approximately 7,554,000 barrels of crude oil daily.

Crude oil production in Saudi Arabia during August amounted to 29,145,710 barrels, or an average of 940,184 barrels per calendar day, it was reported. Crude processed at Ras Tanura during August amounted to 5,387,635 barrels, or an average of 173,795 barrels per calendar day. Crude oil production for the first eight months of 1955 amounted to 229,279,449 barrels, an average of 943,537 barrels a day. Crude run in the refinery for the same period was 47,304,722 barrels, an average of 194,670 barrels a day.

Los Angeles Petroleum Market

Los Angeles.—Solvents and diluents were reported in good supply with the market position relatively unchanged. Lacquer diluents and light paint thinners witnessed a steady rate of demand with listings firm and unchanged at 20.7c. per gallon, 400 gallons or over, ex-tax, f.o.b. Los Angeles Basin area. Interest in cleaning solvents continued to lag due to warm weather; listings were unchanged at 19.7c. per gallon, 400 gallons or over, ex-tax, f.o.b. Los Angeles Basin area. Sales of high melting point paraffin waxes continued at a good level with no surplus of any grade reported. Listings were firm and unchanged as follows:—127/131 ASTM, slabs loose, fully refined, f.o.b. refinery, San Francisco Bay area, quoted .0845 per pound. 140/147 ASTM, same basis, listed .0775 per pound. 157/162 ASTM, same basis, quoted .093 per pound. Add .007 per pound for cartons. Tankcar prices posted .0755, .0683 and .084 per pound respectively. Demand for propane was somewhat slow due to seasonal conditions with postings unchanged at .059 per gallon, tankcars, f.o.b. Los Angeles. Supplies were reported as ample throughout Southern California areas. Butane continued to witness steady interest with demand expected to increase in the near future; listings were firm at .059 per gallon, tankcar basis, f.o.b. Los Angeles.

For Late Market Developments, See Page 4

Tetraethyl Lead Research Is Reported at ACS Meeting

Information on the antiknock action of tetraethyl lead, which may lead to more effective utilization of this gasoline antiknock agent as well as a broader understanding of gasoline combustion, was presented before the recent national meeting of the American Chemical Society in Minneapolis, Minn.

The findings were contained in two papers presented by Drs. Ellis B. Rifkin, Cleveland Walcutt, and Alexander Ross of Ethyl Corporation's research laboratories in Detroit, Mich. The research reported is part of a comprehensive investigation of the fundamentals of antiknock action being undertaken by the Ethyl laboratories.

Contrary to previous reports, the authors declared, very fine lead particles suspended in the fuel do not show antiknock activity. On the other hand, they revealed that the breaking apart of the tetraethyl lead compound in the gasoline-air mixture just before its combustion may be an important factor in its antiknock mechanism. An equation, developed by the authors, showed that this decomposition of TEL is related to the temperatures of the end gases in the engine. The end gases are the last gases to burn as the flame sweeps across the cylinders.

Petroleum, Natural Gas Industries Topic of New Mines Bureau Book

The Bureau of Mines has completed a new fact book concerning America's petroleum and natural gas industries. In preparation by the bureau for a number of months, the reference publication is crammed with historical information and contains numerous items about current production, reserves, transportation and the uses of petroleum and natural gas.

Copies of the publication, known as the "Petroleum and Natural Gas" portion of bulletin 556, "Minerals Facts and Problems," can be obtained only from the superintendent of documents, Government Printing Office, Washington 25, D. C., at 40 cents a copy. "Minerals Facts and Problems," which will contain eighty-seven chapters on the US minerals industry, will be ready in a few months.

API Previews New Movie On Oil Drilling and Refining

"Barrel Number One," the latest in an American Petroleum Institute series of films, was previewed at a special showing last week in New York. The thirty-minute movie is part of an API project to trace pictorially the history of the petroleum industry.

The film translates into lay language the complex picture of the discovery, drilling and tapping of an oil well, and also includes a description of the processing of crude petroleum. Following the refining process, the motion picture relates what each man in the industry—from geologist to gas station attendant—must do to get "barrel number one" to the consumer.

Dresser Gets Export Aid

The Export-Import Bank has authorized an exporter line of credit of $1,300,000 to aid Dresser Industries, Inc., Dallas, Tex., in financing its export sales of heavy machinery for the petroleum, natural gas and chemical industries.

Trade Briefs

Shell Oil Company, New York, has scheduled a new terminal at Niles, Mich., to go into operation late this year.

C. M. Monson, manager of the Standard Oil Company (Indiana) Duluth, Minn., sales division, has retired after forty-eight years with the company.

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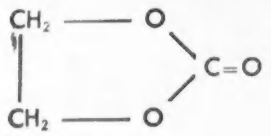

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Industrial Organic Chemicals

Price revisions among these markets were confined to expected revisions of basic nitroparaffins. Fractional revisions took place in the reduced drum prices for nitroethane and nitromethane. New listings of nitropropane were at the same level for 1- and 2-nitropropanes, the latter representing a 1¾ cent reduction in tankcars.

Good business levels were reflected in many ways among various industrial organics. Solvent, pharmaceutical, chemical, cosmetic, lacquer and industrial finishing uses provided good call for alcohol, acetone, methanol, MEK, butanol and esters. Synthetic resins were good outlets for formaldehyde, PE and refined glycerine. Many of these lines are expanding to take care of fall business.

Besides regular business levels being good, there were rises from seasonal upturns in cosmetics and pharmaceuticals production. The price picture for the solvents and organic chemical raw materials was steady at the moment. All rises in quotations were felt to have already been accomplished for the last quarter. The advance of some chlorinated solvents scheduled for October 1 were examples of firmer markets.

A strong antifreeze season was keeping a tight supply situation for ethylene glycol and ethylene oxide from easing up, even with new production coming in the market. Canning operations were underway and antifreeze demand was at peak levels. Call from this direction was also having its effects on methanol. Suppliers varied slightly whether they considered the market tight or barely adequately supplied. No one seemed to have enough methanol to take on a good volume of extra business.

Expansion of rayon activity since the first of the year not only improved the glacial acetic acid market, but has also done the same for carbon disulfide.

Alcohol—Demand was good and showing signs of improving during fall activity. Producers said the price structure for ethanol is very firm under current market conditions. Generally good sales for solvents were expected through the next quarter. Buying interest was good from pharmaceutical outlets and from cosmetics.

Figures on production, withdrawals, and stocks released by the Alcohol and Tobacco Division of the Internal Revenue Service, pertaining to ethyl, completely denatured, and specially denatured alcohol during July 1955, compared with July 1954, were as follows:—

Production

	Gallons	
	July 1955	July 1954
†Ethyl	35,854,610	34,607,890
*Completely denatured	16,625	27,156
*Specially denatured	22,163,126	14,877,832
Withdrawals		
†Ethyl, tax paid	719,562	696,942
tax free	41,240,579	27,883,461
*Completely denatured	17,070	27,726
*Specially denatured	18,856,839	15,650,898
Stocks		
†Ethyl	44,842,137	55,784,314
*Completely denatured	5,190	14,587
*Specially denatured	8,637,138	6,689,248

*Wine gallons. †Proof gallons.

According to the Alcohol and Tobacco Tax Division, materials used in industrial alcohol plants in July 1955 and July 1954, were as follows:—

	Pounds	
	July 1955	July 1954
Corn and corn products	2,260,133	3,493,772
Rye and rye products	80,750	3,266,983
Malt and malt products	144,730	654,867
Wheat and wheat products	966,238	1,698,924
Sorghum grain and sorghum grain products	2,121,160	3,064,458
Other grain	.....	.....
Total grain	5,573,011	12,179,004
Ethylene gas	10,380,853	10,595,636
Other materials	1,144	5,513
	Wine gallons	
	1955	1954
Molasses	6,414,828	5,603,529
Ethyl sulfate	18,728,062	17,384,256
Sulfite liquors	23,727,100	20,157,000
Other materials	2,403,668	3,025,443
†Products used in redistillation	1,506,233	3,682,996

†Proof gallons.

This market reports on industrial aliphatic organic chemicals. Reports on industrial aromatic organics may be found in the Coal Chemicals market, while reports on fine and rare organic chemicals appear in the Drugs, Fine Chemicals, Botanicals market.

Price Trends

Advanced
None

Reduced
Nitroethane, l.c.l., ¼c. per lb.
Nitromethane, l.c.l., ¼c. per lb.
2—Nitropropane, tanks, 1¾c. per lb.

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Sept. 24, 1954
130.94	130.97	130.91	132.06

(*For Current Prices see Page 9*)

Butyl Alcohol—Fermentation butanol was still going at a good pace. Producers said that demand was good from solvent outlets and other industrial uses. Butyl plasticizers were still maintaining a good pace and a steady demand for butanol. Price schedules for this alcohol were steady and unchanged.

Carbon Disulfide—Producers reported that the market was in fairly good shape. Demand was holding to a steady pace. Sales were materially improved with the expansion of rayon activity. It was generally felt that more growth was coming and a higher level of operations than recent slow years was in store for rayon.

August shipments (107,500,000 pounds) of rayon and acetate yarn, staple and tow were reported 14 percent above July and 19 percent above August 1954, according to a report from the Textile Economics Bureau. The figures also show a 19 percent increase over last year for the cumulative total in the first eight months, 845,300,000 pounds in 1955 from 707,400,000 pounds in January-August 1954.

Ethyl Acetate—Demand for lacquer solvents was good. The market was felt to be in a relatively firm position. No price revisions were reported and most sources felt that current schedules would hold for the last quarter. Some of the firmness in acetic acid was said to be partly responsible for a stronger position for the ester.

Ethylene Glycol—New production of glycol and oxide totaling 60,000,000 pounds capacity, which was reported ready to come in the market, was expected to help relieve some of the tight supplies of antifreeze glycol. However, the canning season is in full swing and antifreeze needs are heavier than presently available supplies.

Most trade sources were of the opinion that this would be another good antifreeze year. Lack of surplus stocks, a good selling season last year, and sustained automobile production, all pointed towards good sales. Ethylene oxide was tight too. Prices of both products were firm without change.

Formaldehyde—"After summer vacation periods were by, activity came back up to above-normal levels," a producer stated last week. Most trade sources were in agreement that demand has returned to the pre-vacation pace. Generally good business was reflected here.

One of the spurs to the formaldehyde market was the fact that synthetic resins never did taper off to a full summer time lull. Expanding sales and an optimistic viewpoint about future requirements created a picture of a good market. The fall paint business and production of new model automobiles bolstered these views. Formaldehyde supplies were said to be adequate to handle any expected consumer needs. Prices were firm and unchanged.

Glycerine—Demand for refined glycerine was quite good in all directions. The trade expected it to continue. Prices were firm and unaltered. Crude glycerine was not quite as available as it had been a few weeks ago. The political eruption in Argentina forced sales of glycerine to be suspended in midweek. One substantial shipment that was not effected was due in the market any day, it was stated.

Glycerine imports in July amounted to 3,013,000 pounds, whereas June imports were 3,500,000 pounds and July 1954 imports were 1,146,000 pounds. Total imports this year for the January through July period were 14,746,000 pounds, against 7,332,000 pounds in the first six months of last year. Exports figures for July and June 1955, and July 1954 respectively, were 553,000 pounds, 992,000 pounds, and 1,419,000 pounds. The first six months' exports amounted to 6,095,000 pounds this year and 9,174,000 pounds last year.

Disappearance figures in July were at 19,281,000 pounds, compared with 19,597,000 pounds in June and 19,258,000 pounds in July 1954. Total disappearance through July was 134,835,000 pounds this year and

For Late Market Developments, See Page 4

128,038,000 pounds in 1954. Excess of disappearance over production was 5,087,000 pounds in July, 601,000 pounds in June and 6,130,000 pounds in July 1954. Cumulative totals for January-July excess were 12,668,000 pounds this year and 7,130,000 pounds more than production last year.

Methanol—A good antifreeze season in process and solid industrial demand were keeping this market in a snug position. Trade sources said that demand has come up in recent weeks, especially since the antifreeze canning operations got into high gear.

A couple of sources related that there were some delays in shipments, while others said that they were just meeting their commitments and were unable to take on new business. It was felt that government purchases and good exports of methanol earlier in the year helped to make 1955 a good year for methanol.

Methyl Ethyl Ketone—Producers related that they were doing very well in MEK. Demand was strong and well sustained. The call came from large and small lacquer outlets for industrial finishes in automobile, furniture and home appliance industries. General business activity was expected to hold the pace up for solvents and most other organic chemicals in the fourth quarter.

Nitroparaffins—New production from a recently completed plant and the attainment of adequate stocks to handle commercial quantities permitted readjustment of basic nitroparaffin prices incorporating slight decreases in one or two listings, it was announced. No immediate changes were forseen for derivatives, inasmuch as the derivatives plant isn't scheduled for completion until later this year.

Quotations for nitroethane were at 22½c. per pound in tankcars, 24c. per pound in drum carlots, and 24¾c. per pound in l.c.l. quantities, on an f.o.b. plant, freight paid basis. Western schedules were 1c. higher. The less than carlot price represented a ¼c. reduction over previous l.c.l. prices. Nitromethane prices were identical with nitroethane schedules.

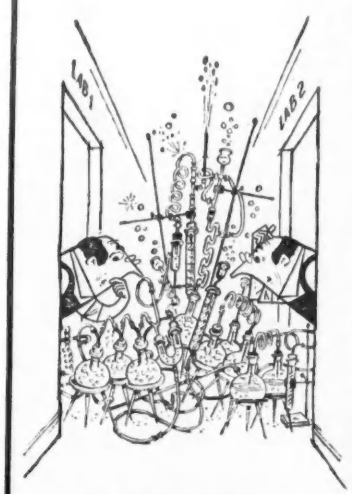
New listings for 1-nitropropane and 2-nitropropane are also at the same level, which is 21c. per pound tankcars, 22½c. per pound in drum carlots, and 23¼c. per pound in l.c.l. The new prices are 1¾c. lower than former 2-nitropropane schedules.

Pentaerythritol—Demand was reported at good levels. The call for PE was holding up well from synthetic resins, thermosetting plastics and polyesters. Trade sources indicated that activity has picked up with the completion of vacation periods and business was right back up to peak levels.

It was felt that there was enough of a supply available to take care of consumption requirements. Suppliers were meeting their commitments. Prices were firm and stable.

Seil, Putt & Rusby, Inc., Names Vorhis President, Succeeding Putt

Seil, Putt & Rusby, Inc., New York, has announced the appointment of Dr. Stephen S. Vorhis as president of the firm, succeeding the late Earl B. Putt. Dr. Vorhis had been chief chemist and research director since 1948.



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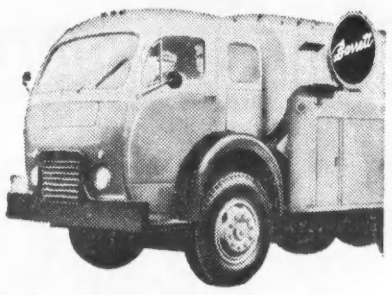

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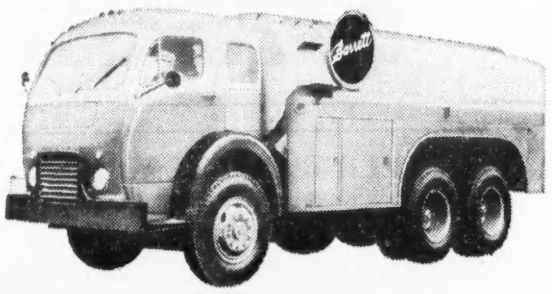

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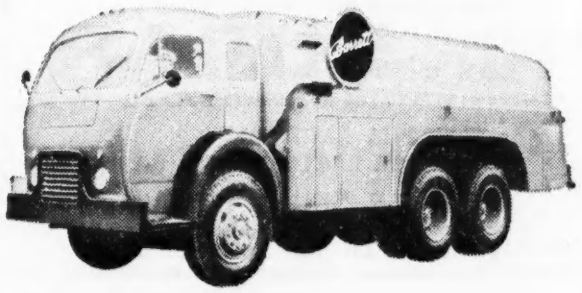

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Coal Chemicals

Demand for many coaltar products was good and in line with overall business levels. Tar acids were moving well. Aromatics supply and demand were well balanced. Demand for dyestuff intermediates was quite good. Intermediates going into synthetic rubber production sold at very good levels. Chemicals also moved well into plastics and plasticizers.

The meta-para fractions of cresol and cresylic acid grades high in meta content were tight spots in the tar acid picture. There were also some petroleum cresylics that have been on allocation because of tight supply, trade sources reported. Natural phenol was still selling in good volume. Synthetic phenol has also held its own, marketwise, in the recent past. Production of most of these tar acids was at full capacity and generally meeting all consumer inquiry.

Domestically, crude naphthalene was said to be rather tight. On the imported scene, the suppliers have met with some success in moving material at a 7 cent and 7¼ cent price. The listing is still nominal, however, and resistance to the 7 cent price and anything above 6¾ cents was still in effect by users in this country. Just how long the nominal price scheduling on imported naphthalene will continue is hard to say.

Benzol, toluol, and xylol all remained in good position, both in supply and demand. High steel production rates continued to make plenty of material available. Some intermediates, such as acetanilide, aniline, and p-chloroaniline all were in good condition with little change noted in the recent past. Phthalic and maleic anhydride were also unchanged and selling at good rates.

Steel production during the week ending September 25 was scheduled to be at 95.7 percent of theoretical capacity, or an index rating of 143.7, according to the American Iron and Steel Institute. This was equivalent to 2,309,000 tons, compared with actual output of 2,309,000 tons the previous week, 2,186,000 tons one month ago, and 1,637,000 tons one year ago.

Price Trends

Advanced
None
Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Sept. 24, 1954
114.77	114.77	114.74	114.56

(*For Current Prices see Page 9*)

Basic Products

Benzol—The market for this aromatic remained virtually unchanged last week. Demand from some directions was sustained well enough to keep most of the production moving along at a good pace. Demand for benzol from producers of insecticides varied in some areas. Certain producers were making large quantities of DDT and BHC for export use and domestic use in the South and Far West.

Synthetic phenol and styrene for synthetic rubber production have proved to be good consuming outlets for the aromatic. Phenolic resins and adhesives were picking up the phenol market, and indirectly the benzol market. Rubber activity was high over the past few months and is showing no sign of any cutbacks. Steel production continued to reach high levels, thus making plenty of benzol and other light oils available to interested consumers. There were no price changes in the recent past.

Cresylic Acid—Strong demand was still in evidence for tar acids. Producers were moving all of their output without difficulty in the most used grades. Some of these fractions are in tight supply because of heavy demand from resins and tricresyl phosphate. There was also good call from many other outlets.

Coaltar acid, petroleum acid, and imported ADF acid were all selling at a good rate. There was less actual tightness in the market for imported acid, but suppliers related that business was good and holding up well. Prices of domestic material from either source and ADF acid were firm at previous listings.

Cresols—The call from normal consuming channels kept sales up to a good level. Demand continued to be strong for the meta-para fractions. Producers indicated there was no sign of a letup in demand or total output

Prices held firmly to previous levels. No changes in the schedules were currently expected. The grades receiving the most call have been in short supply for several months.

Naphthalene—Domestic crude material was still in a tight position. Producers were moving their output right out to fill orders. The bulk of the supply was going to the phthalic anhydride market, which is continuing to do exceptionally well.

Demand for industrial refined naphthalene used in the production of such intermediates as b-naphthol, was said to be quite good now. Refined ball and flake material has been getting better inquiries from moth control outlets. Sales of packaged naphthalene for this purpose were better than usual, it was reported. The domestic price listings were unchanged since the recent increases.

Importers related that crude naphthalene was still in a relatively unsettled position. Material was said to be moving at 7c. per pound in some quarters and even as high as 7¼c. per pound in a few instances. The nominal listing in prices current of 6¾c. per pound has been removed and a new nominal listing of 7c. per pound will be carried until a change is made in the present price scheduling.

Phenol—With the recent announcement that prices will definitely be increased on October 1 producers have been selling all available material to consumers interested in building up inventories at the price now in effect. Production capacities have been operating at near top levels to meet the demand caused by the inventory buildup.

Both USP synthetic and natural material were said to be doing quite well. Phenolic resins were moving well to the automotive industry, now in the midst of model changeovers. Other molding applications and paint production continued to keep inquiry at a high rate. Varnish applications also were noted as up in demand. There were no price changes.

Toluol—The moderate volume of nitration material moving to the government for defense requirements has helped to keep toluol in its present steady position, producers reported last week. There was a good amount of toluol and other light oils available as a result of increased coking operations. To some extent, demand was better from industrial finishes and

Cokeoven Output: July

Following are cokeoven production statistics comparing July 1955, and July 1954, reported by the Bureau of Mines. Figures for the running total include output from January through July of both years. Only coke oven output is represented.

	July 1955	July 1954	Calendar Year to date 1955	Calendar Year to date 1954
Benzol, nitration, 1*	4,398,383	3,043,500	34,385,380	25,598,300
industrial pure, 2*	8,485,083	7,091,400	63,175,552	53,101,800
90 percent	112,557	143,500	812,828	882,700
Other industrial grades (excluding motor grade)	51,295	105,300	447,275	841,200
Total	13,047,320	10,383,700	98,321,035	80,424,000
*Creosote oil	2,029,783	2,269,400	18,752,953	15,288,200
*Crude chemical oil	2,065,095	1,718,600	15,587,894	13,345,900
*Crude coaltar	68,394,416	55,933,700	485,665,616	412,687,600
Distilled or topped	25,387,996	17,136,700	180,296,511	126,051,100
Burned as fuel	9,458,070	9,693,200	78,242,268	82,698,100
Used otherwise	167,103	231,200	775,286	1,694,700
Naphthalene, crude, solidifying under 74°C	3,044,136	1,513,300	23,222,647	12,898,700
At 74° and under 76°C	1,227,210	1,086,500	9,344,474	3,994,900
At 76° and under 79°C	10,601,428	5,211,000	72,036,032	35,537,400
Total	14,872,774	7,810,800	104,603,153	52,431,000
Pyridine (bar base) *crude, dry basis	12,058	12,600	146,439	150,800
†Refined, 2*	90,186	65,400	471,664	289,100
*Solvent naphtha, crude heavy solvent	471,154	375,200	2,986,641	2,433,500
Refined, light solvent	12,105	25,200	147,664	142,700
Toluol, nitration, 1*	2,346,946	1,938,400	16,933,401	14,128,900
industrial pure, 2*	638,802	623,700	4,654,257	4,390,100
all other grades	54,300	66,900	514,043	500,500
Total	3,040,048	2,629,000	22,101,701	19,019,500
Xylol:—All grades	876,884	840,100	6,683,024	5,721,200

*Gallons. †Pounds.

For Late Market Developments, See Page 4

Coal Chemicals

Estimated output of coal chemicals recovered from cokeoven operations during the week ending Sept. 25 was as follows:—

Ammonia liquid, NH_3	lbs.	1,077,490
Ammonium sulfate	lbs.	38,943,582
Benzol	gals.	3,725,038
Coaltar	gals.	17,085,919
Creosote oil	gals.	952,349
Naphthalene, crude	lbs.	2,632,155
Pyridine, refined	lbs.	27,707
Toluol	gals.	732,693
Xylol	gals.	195,488

other outlets for the solvent than a number of trade sources had expected it was going to be.

This slight expansion in buying interest also helped maintain the current good position. However, there was some surplus material around and the market was not felt to be on completely firm ground. It is considered good in many circles, however. Most sources expected the market to remain at a status quo for the remainder of this quarter and possibly into next year.

Xylol—Producers said that this market has been holding up very well. Demand was good for solvent uses in industrial finishes. The pace set by alkyd resins has kept activity up. It was also said that 3- and 5-degree material were moving nicely for pharmaceuticals and dyestuff outlets. The dyestuff needs have improved in line with overall better activity in that direction.

The market position for xylol was felt to be a balanced one. There have been no price changes in this material for some time, and the prospects for a change in the fourth quarter or possibly into next year are rather slim, trade sources reported.

Intermediates

Acetanilide—Conditions in this market were comparatively unchanged, it was reported. Much of the material being produced is being bought by manufacturers of sulfanilamide and other sulfa drugs. Interest in the material by dyestuff intermediate manufacturers and celluloid makers was also rather good. Prices were firm.

Aniline—Producers were reported selling output to regular consumers at a sustained pace. Synthetic rubber manufacturers provided good buying interest, as did textile dyestuff intermediate users. Movement throughout the market was said to be steady. There have been no price changes.

p-Anisidine—Demand for this intermediate has improved along with other dyestuff intermediates. Increased textile activity has picked up sales for most of the material going into the making of dyes.

Not only was the para isomer moving well for this end-use, but o-anisidine was also enoying a good sales period. Price schedules of both materials held firm to former levels. Adequate supplies were readily available to take care of consumption requirements.

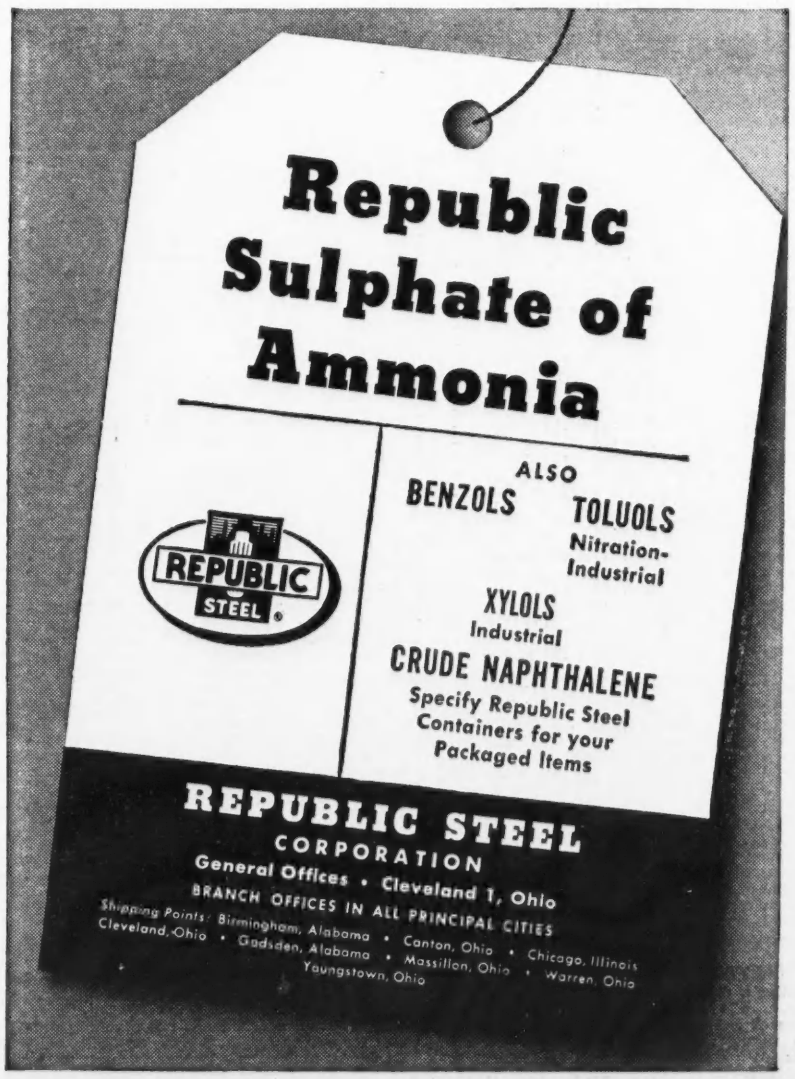
o-Chloroaniline — Supplies were considered very good. The general market was said to be in a good balance with production of this specialty. Sales to various users held steady over recent weeks. Prices remained steady.

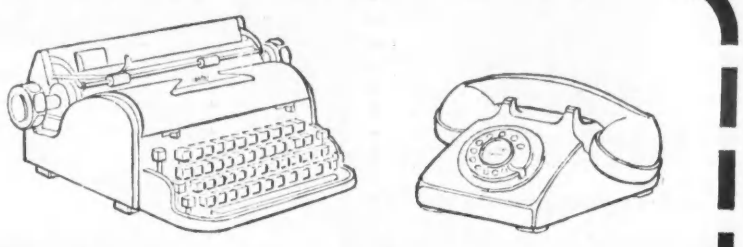
Dicyclohexylamine—A steady amount of this product was said to be moving into rust inhibitors production. The market is not considered in large volume, but fair amounts move into general industry. Price quotations were steady and unchanged.

Maleic Anhydride—Sales to consumers in various industries was said to be diversified enough to offset any decline in interest by a leading user, such as the automobile industry. Maleic apparently has conformed to the good business picture and seems to be heading to a good fourth quarter in sales. Production was still above demand, but there was little excess material for stockpiling on a large scale. There were no price changes of any quantities of maleic.

Pentachlorophenol — Market conditions were said to be about the same. Much of material is going into the manufacture of wood preservatives. A portion of the product goes into asphalt and rubber latices. Prices were unchanged.

Phthalic Anhydride—No real change was noted in the tight phthalic market last week. A general easing which had been expected as far back as last Spring has not been seen to date. Demand from users selling to the automobile industry has maintained a high level for quite some time. The use of more and more plastics and protective coatings for automobiles and other products such as household appliances still remains at a pace above estimates of last year. Prices were firm in all quarters.





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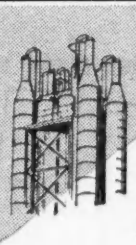

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Chemical Tariff Cuts Listed for Negotiations

—Continued from page 3

also negotiate with some additional GATT countries, the department said.

Authority to negotiate the new round of tariff reductions was contained in the trade agreements extension act passed by congress this year. The extension law permits reductions up to 15 percent in duties below the January 1, 1955, rate, but with not more than 5 percent of the reduction taking place in one year. The act also authorizes reductions in rates which are above 50 percent ad valorem or its equivalent. These may be reduced to 50 percent over a three-year period. Some items were included on the list for the purpose of reducing the rate to 50 percent.

Special Requirement Provision

In submitting testimony to the Committee for Reciprocity Information, domestic producers and exporters were also invited to take advantage of a special requirement in the trade agreement legislation. It provides that no action may be taken to decrease the duty on any article where the President finds that such reduction would threaten domestic production needed for projected national defense requirements.

The State department said that submissions may also be presented concerning wages which are substandard in the exporting country in accordance with the policy recommended in the President's message to congress May 30, 1954, relating to avoidance of concessions in such cases.

There is no limitation on the products on which the United States may request concessions. Domestic producers or exporters interested in developing markets in the other countries involved were invited to present suggestions as to products on which concessions should be sought in various countries and the extent to which existing customs treatment should be modified to permit development of trade in those markets.

Following is a list of articles imported under schedule 1 (chemicals, oils and paints), which are proposed for consideration in the trade agreement negotiations:—

Items Proposed for Tariff Cuts

Acids and acid anhydrides:—Acetic acid containing by weight more than 65 percent of acetic acid, and acetic anhydrides.

Acetaldehyde, aldol or acetaldol, aldehyde ammonia, butyraldehydte, crotonaldehyde, paracetaldehyde; ethylene chlorohydrin, propylene chlorohydrin, butylene chlorohydrin; ethylene dichloride, propylene dichloride, butylene dichloride; ethylene oxide, propylene oxide, butylene oxide; monoethanolamine, diethanolamine, triethanolamine, ethylene diamin, and all other hydroxy alkyl amines and alkylene diamines; allyl alcohol crotonyl alcohol, vinyl alcohol, and all other olefin or unsaturated alcohols; homologues and polymers of all the foregoing; ethers, esters, salts and nitrogenous compounds of any of the foregoing, whether polymerized or unpolymerized; and mixtures in chief value of any one or more of the foregoing; all the foregoing not specially provided for.

Acetone and ethyl methyl ketone, and their homologues, and acetone oil.

Alcohol: Butyl, whether primary, secondary, or tertiary; and methyl or wood (or methanol).

All chemical elements, all chemical salts and compounds, and all combinations and mixtures of any of the foregoing, all the foregoing obtained naturally or artificially and not specially provided for (except the following:—ammonium silico fluoride; barium compounds; beryllium oxide or carbonate; caseium chloride; chlorine; ergotamine tartrade; fatty alcohols and fatty acids, sulfated, and salts of sulfated fatty acids; Haarlem oil, medicinal preparations other than derivatives of barbituaric acid and vitamins; products chiefly used as assistants in preparing or finishing textiles; salts derived from vegetable oils, animal oils, fish oils, animal fats or greases, or from fatty acids thereof, salts and compounds of gluconic acids and combinations and mixtures of any such salts or compound; tellurium compounds; zinc arsenate; and monosodium glutamate preparations).

Aluminum Salts, Compounds

Aluminum salts and compounds not specially provided for.

Ammonium chloride.

Cream of tartar.

Balsams: Fir or Canada, Peru, and all other balsams (except copaiba, tolu, and styrax), all the foregoing which are natural and uncompounded and not containing alcohol.

Synthetic gums and resins not specially provided for.

Barium nitrate.

Blackings, powders, liquids, and creams for cleaning or polishing, not specially provided for, and not containing alcohol.

Caffeine and theobromine.

Calcium carbide.

Calomel, corrosive sublimate, and other mercurial preparations.

Carbon tetrachloride.

Chalk or whiting or Paris white, precipitated.

Chemicals, drugs, medicinal and similar substances, whether dutiable or free (except preparations of animal origin; Haarlem oil; ergotamine tartrate; and except salts and compounds of gluconic acids, and combinations and mixtures of any such salts or compounds), when imported in capsuls, pills, tablets, lozenges, troches, ampoules, jubes, or similar forms, including powders put up medicinal doses.

Flavoring extracts, and natural or synthetic fruit flavors, fruit esters, oils and essences, all the foregoing and their combinations when containing more than 50 percent of alcohol.

Chloral hydrate, thymol, and diethylbarbituric acid and salts and compound thereof.

Phthalic anhydride.

Phenol; carbolic acid which on being subjected to distillation yields in the portion distilling below 100 and 90° C. a quantity of tar acids equal to or more than 5 percent of the original distillate.

Sodium benzoate and saccharin, when obtained, derived, or manufactured in whole or in part from any of the products provided for in paragraph 27 or 1651, tariff act of 1930; vanillin, from whatever source obtained, derived, or manufactured.

Cobalt oxide.

Cellulose acetate, and compounds, combinations, or mixtures containing cellulose acetate:—

(1) In blocks, sheets, rods, tubes, powder, flakes, briquets, or other forms, whether or not colloided, and waste wholly or in chief value of cellulose acetate, all the foregoing not made into finished or partly finished articles.[1]

(2) Made into finished or partly finished articles of which any of the foregoing is the component material of chief value, and not specially provided for.[1]

Compounds of Cellulose

All compounds of cellulose (except cellulose acetate, but including pyroxylin and other cellulose esters and ethers), and all compounds, combinations, or mixtures of which any such compound is the component material of chief value:—

(1) In transparent sheets, more than 3/1000 of one inch and not more than 32/1000 of one inch in thickness, not composed of pyroxylin or of any compound, combination, or mixture of which pyroxylin is the component material of chief value, blocks, rods, tubes, powder, flakes, briquets, or other forms (not including sheets other than those previously described in this subdivision (1), whether or not colloided, not made into finished or partly finished articles.

(2) Made into finished or partly finished articles of which any of the materials provided for in paragraph 31(b)(1), tariff act of 1930, is the component material of chief value, not specially provided for (except articles made in chief value from transparent sheets, bands, or strips not more than 3/1000 of one inch in thickness, and except smokeless powder).

Compounds of cellulose, known as valcanized or hard fiber, made wholly or in chief value of cellulose.

Compounds of casein, known a galalith, or by any other name, in blocks, sheets, rods, tubes, or other forms, and finished or partly finished articles not specially provided for of which any of the foregoing is the component material of chief value.

Drugs of animal origin, natural and uncompounded and not edible, and not specially provided for, but which are advanced in value or condition by shredding, grinding, chipping, crushing, or any other process or treatment whatever beyond that essential to the proper packing of the drugs and the prevention of decay or deterioration pending manufacture, not containing alcohol:—Fish oils and fish-liver oils (except halibut-liver oils).

Ipecac, Derris

Ipecac; derris, tube, or tuba root; and barbasco or cube root; all the foregoing which are natural or uncompounded drugs, but which are advanced in value or condition by shredding, grinding, chipping, crushing, or any other process of treatment whatever beyond that essential to proper packing and the prevention of decay or deterioration pending manufacture, and not containing alcohol.

Coca leaves and digitalis.

Ethers and esters:—Diethyl sulphate and dimethyl sulphate; ethers and esters of all kinds not specially provided for; all the foregoing not containing more than 10 percent of alcohol.

Extracts, tanning:—chestnut, divi-divi, hemlock, wattle, and other extracts, decoctions, and preparations of vegetable origin used for tanning, not specially provided for and not containing alcohol (not including combinations and mixtures of dyeing and tanning extracts, decoctions, or preparations, and except urunday extract).

Edible gelatin; gelatin, not specially provided for; glue of animal origin, not specially provided for, valued at less than 40 cents per pound; pictin; isinglass; and manufactures, wholly or in chief value of gelatin, glue, or glue size.

Magnesium:—Chloride, not specially provided for; sulfate or Epsom salts.

Manganese compounds and salts, not specially provided for.

Oils, animal and fish:—Whale; sperm, crude or refined or otherwise processed; spermaceti wax; wool grease, including adeps lanae, hydrous or anhydrous.

Animal and fish oils, fats, and greases, not specially provided for:—Dogfish and other shark oil; and animal fats and greases (not including animal oils).

Vegetable Oils

Oils, vegetable:—Olive, weighing with the immediate container less than forty pounds.

Oils, distilled or essential, not mixed or compounded with or containing alcohol:—

Lemon, eucalyptus, and sandalwood.

Essential and distilled oils not specially provided for:—Vetivert.

Perfume materials:—Ambergris, not mixed and not compounded, and not specially provided for; all mixtures or combinations con-

taining essential or distilled oil, or natural or synthetic oderiferous or aromatic substances; all the foregoing materials not marketable as perfumery, cosmetics, or toilet preparations, and not containing more than 10 percent of alcohol.

Perfumery, including cologne and other toilet waters, articles of perfumery, whether in sackets or otherwise, and all preparations used as applications to the hair, mouth, teeth, or skin, such as cosmetics, dentifrices, tooth soaps, pastes, theatrical grease paints, pomades, powders and other toilet preparations; bath salts, if perfumed (whether or not having medicinal properties).

Paints, Colors

Paints, colors, and pigments, commonly known as artists', school, students', or children's paints or colors:—(2) In tubes or jars, not exceeding 1½ pounds net weight each, and valued at 20 cents or more per dozen pieces, and not assembled in paint sets, kits, or color outfits; (3) in tubes, jars, cakes, pans, or other forms, not exceeding 1½ pounds net weight each, when assembled in paint sets, kits, or color outfits, with or without brushes, water pans, outline drawings, stencils, or other articles.

Pigments, colors, stains, and paints, including enamel paints, whether dry, mixed, or ground in or mixed with water, oil, or solutions other than oil, not specially provided for.

Blue pigments and all blues containing iron ferrocyanide or iron ferricyanide, in pulp, dry, or ground in or mixed with oil or water; ultramarine blue, dry, in pulp, or ground in or mixed with oil or water, wash and all other blues containing ultramarine.

Decolorizing, deodorizing, or gas-absorbing chars and carbons, whether or not activated, and all activated chars and carbons.

Ochers, washed or ground.

Spirit varnishes containing 5 percent or more of methyl alcohol, and all other varnishes, including so-called gold size or japan, not specially provided for.

Potassium Items

Potassium:—Ferricyanide or red prussiate of potash; ferrocyanide or yellow prussiate of potash; carbonate; nitrate or saltpeter, refined.

Sodium, potassium, lithium, beryllium, and caseium.

Soap:—Castile; toilet; all other soap and soap powder, not specially provided for.

*Sodium:—Chloride or salt, in bulk; chromate and dichromate; ferrocyanide or yellow prussiate of soda; nitrite; silicofluoride; sulfate, anhydrous.

Cerium nitrate, cerium fluoride, and other salts of cerium not specially provided for.

Zinc chloride; zinc sulfate; zinc sulfide.

Axides, fulminates, fulminating powder, and other like articles not specially provided for.

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[1]Includes products wholly or in chief value or acrylic resin dutiable under paragraph 31(a) by virtue of paragraph 1559, tariff act of 1930.

*Subject to a reduction in duty to 50 percent ad valorem.

A number of metals and minerals imported under schedule 3 of interest to the chemical industry also were included on this list—such as manganese ore, tungsten, calcium, aluminum, magnesium, antimony, bismuth, metallic arsenic, copper and nickel.

Among listed items from other schedules of the tariff act were molasses, dried blood albumen, certain spices and spice seeds, manufacturers of rayon and other synthetic textiles.

Fish oils and fishliver oils (except halibut liver oil) are proposed to be bound on the free list along with sesame seed and furfural. Import taxes on copper also were listed for binding against any increase.

Phillips Awards Contract For Plastic Plant Work

Phillips Chemical Company, wholly-owned subsidiary of Phillips Petroleum Company, Bartlesville, Okla., has awarded a contract for the major portion of construction work on a one hundred and ten million-pound-per-year plant to manufacture its new polyethylene plastic "Marlex," at the company's Adams Terminal chemical manufacturing site on the Houston (Tex.) Ship Channel. The contract has been awarded to Farnsworth & Chambers Company, Houston. Construction will start immediately. At the same time, the company announced that construction would start at an early date on a sales service laboratory at Bartlesville, to provide complete facilities for adapting plastics to customers needs, with initial emphasis on "Marlex."

Paper Chemistry Institute Chooses John G. Strange

John G. Strange has been elected president and treasurer of The Institute of Paper Chemistry and Westbrook Steele has been named president emeritus. The institute has also enlarged its board from sixteen to twenty members.

Mr. Strange has been associated with the institute for twenty-three years. He served as secretary-treasurer from 1944 to 1950, and as vice-president and treasurer since 1950.

Manufacturing Chemists Pick 6 Committee Heads

Six new committee chairmen have been appointed by the board of directors of Manufacturing Chemists' Association. The newly elected committee heads are:—

Finance, John Fisters, president of Mallinckrodt Chemical Works, St. Louis, Mo.; program, Hans Stauffer, president of Stauffer Chemical Company, New York; international trade and tariff, Richard F. Hansen, assistant to the president, Allied Chemical & Dye Corporation.

Also, public relations advisory, Emery N. Cleaves, vice-president of Celanese Corporation of America, New York; statistical, O. V. Tracy, president of Enjay Company, New York, and water pollution abatement, H. L. Jacobs, engineering department of E. I. duPont de Nemours & Co., Wilmington, Del.

D&O Adds to Sales Staff

Dodge & Olcott, Inc., New York, has added Pasquale J. Morone to its sales staff. Mr. Morone has been associated with the essential oils industry since 1949.

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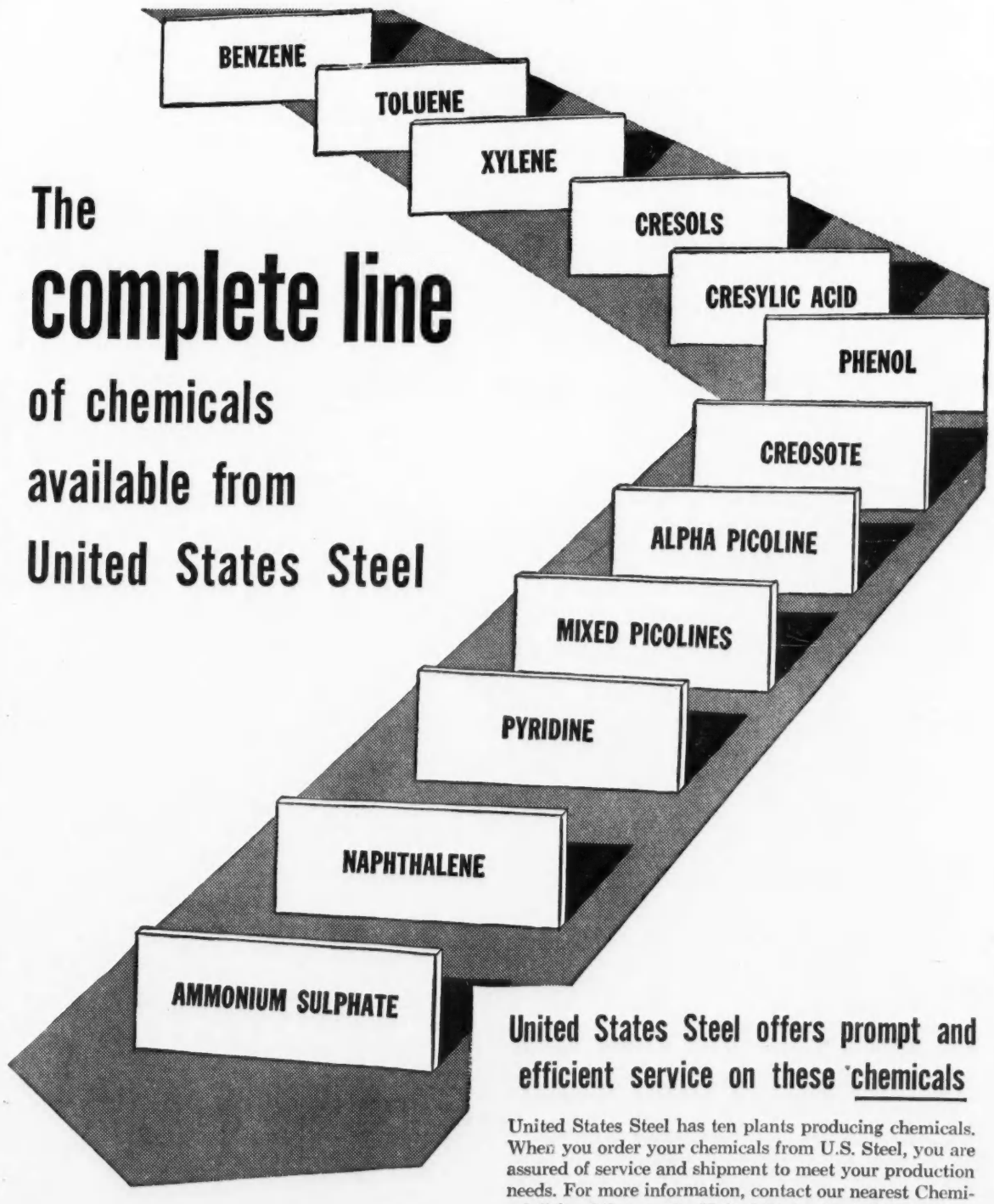

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Drugs, Fine Chemicals, Botanicals

The Tariff Commission announced last week that it had started an investigation of imports of p-amino-salicylic acid. The investigation is being conducted under the escape-clause provision of the Trade Agreements Act. The Tariff Commission's study is designed to discover whether imports of the chemical product have increased as a result of tariff concessions to such an extent that have caused or threatened serious injury to a domestic industry producing like or similar products.

The bulk price of hydrocortisone acetate and alcohol was reduced $1.25 per gram last week in a move which was attributed to manufacturing economies making possible a lowering of prices to the consumer. Different segments of the trade gave varying reports upon the activity of consumer demand. From one quarter came a report that business was slower than anticipated for this time of the year while from another came indications that inquiry was strong in a considerable number of items.

While consumption of antibiotics was expected to seasonally rise in coming months, the price situation was currently characterized as being on the side of weakness. There has been considerable price shading in quotations during the last year reminiscent of the developments in antibiotics some years ago. There has been a steady gain in the use of antibiotics other than terramycin and penicillin, with the result that competition in the sales of these two has driven prices to a low level.

Demand for seasonal drugs such as caffeine, acetophenetidin and aspirin was reported to be moving at a generally brisk level. This particular group of chemicals is used in combination in so-called "APC" compounds which are sold in a substantial volume during the cold weather months for use in the prevention and treatment of ithe common cold.

Bulk drug producers on the whole anticipated an ever increasing rise in the consumption of drugs particularly as a result of the growing emphasis upon geraitric drugs and the popularity, on the ultimate consumer level, of vitamin supplements. There also is expected to be a continued growth in the use of drugs such as methionine in aminal feeds.

Acetophenetidin—The market for this item was moving into a seasonal high point. Acetophenetidin, in combination with caffeine and aspirin, is used in a substantial amount as an ingredient in manufacture of so-called "APC" cold preparations. Supplies were adequate while prices were holding steady.

p-Aminobenzoic Acid — Demand for p-aminobenzoic acid was reported to be at routine levels. Trade reports stressed the fact that imported material continued to undercut domestic acid considerably with the result that some producers of PABA have discontinued its manufacture.

Aspirin—Demand for aspirin was seasonally steady and consumption was expected to continue heavy during the coming cold weather months. Aspirin is perhaps the foremost drug used in combatting the common cold. It is used in prodigious amounts both "straight" and as an essential ingredient in a host of various compounds which are taken in the billions of dosages to treat colds. Supplies were generally believed to be adequate to accommodate trade needs and expected to continue in the immediate future barring any unforseen difficulties. Prices were steady with no changes, anticipated for the balance of this year, at any rate.

Atropine—Inquiry for the alkaloid remains small while that for the sulfate salt continued routine. Supplies were ample for immediate needs and expected to continue. Prices were unchanged.

Bismuth Salts—Demand for bismuth salts was reported to be at routine levels. Takings by drugs manufacturers were noted to be at a seasonal rate since consumption of drugs hits its peak during the cold weather months.

Caffeine—Demand for caffeine continues at a good rate, on the whole, although one producer felt that inquiry could be stronger, particularly at this time of the year. Substantial quantities of caffeine are used by pharmaceutical manufacturers in the formulation of so-called APC compounds. This compound has become very popular on the consumer level for use in the treatment of the common cold. It is sold under literally dozens of trade-marked brands, all of which are essentially similar in composition.

Pricewise, there was no change in caffeine quotations and it appeared probable that current prices would remain in force during the coming quarter. Supplies were adequate for trade requirements.

Chlorophyll—There were no new developments in this item. Supplies were adequate to meet current requirements and output continues to go into a few principal industries. Research has been reported to be under way on various medical aspects of chlorophyll and possibly later development in that filed will prove commercially important.

Hormones—Inquiry for hormones remained fair, on the whole. Supplies were adequate to accommodate consumers' needs and expected to continue. Price schedules were unchanged.

Hexylresorcinol—Demand for hexylresorcinol was reported to be at routine levels. Supplies were adequate to cover trade needs and expected to continue in the fall. Prices were steady.

Hydrocortisone—The price schedule on hydrocortisone alcohol and acetate was reduced $1.25 per gram last week in a pair of reductions which brought the current level to $4.75 per gram on both materials. The reduction was the first decrease in bulk hydrocortisone since last year when it was first made available.

The decline was attributed to the achievement of greater manufacturing economies and it was anticipated the lower price would result in an increase in the overall consumption of these compounds particularly in topical usages.

Mercurials—Demand for mercurials was reported to be running at a steady rate. Supplies were adequate and expected to continue in the immediate future.

Despite the tremendous drop in the price of mercury metal over the past year, there continues to be little evidence that mercurial quotations will be reduced in the near future. Throughout the past year as mercury prices steadily declined some reductions in the salts was also anticipated. Overall consumption of mercurials has been curtailed to some degree in recent years as a result of the high price levels on these compounds. Mercury salt prices were pushed to their present level as a direct result of the rise in the metal prices which were characteristic of the market in recent years.

It has been stated that current mercury salt prices were raised to their current level at a time, years ago, when mercury prices were still lower than at present with the result that manufacturers have been unable to justify any reduction in their schedules until possibly the mercury market declines even further. This it gives no evidence of doing. At present the market is firm and has reportedly strengthened to a slight degree.

The market situation in the mercurials thus remains as inflexible as ever. Any further rise in mercury metal quotations could be expected to result in maintenance of the status quo, it was felt.

Molasses—Slightly improved demand for feed molasses was reported for the Gulf area during week ending September 21, 1955. The price for blackstrap at New Orleans continued at mostly 10¼c. per gallon with a few offerings above and below that level. The blackstrap market at Kansas City continued unsteady as drought conditions in that area adversely affected formula-feed business. East coast demand for blackstrap continued moderate with steady prices. Albany price for cane blackstrap was 13c. per gallon. Supplies of blackstrap are adequate at all terminals. Improved demand for hydrol was noted for Clinton and Chicago as supplies became limited at those points. Market conditions for citrus and beet molasses remained unchanged from last week.

Approximately 38,400,000 gallons of mo-

For Late Market Developments, See Page 4

Price Trends

Advanced

None

Reduced

Hydrocortisone acetate, bulk, $1.25 per gram.
Alcohol, $1.25 per gram.

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	Sept. 24, 1954
66.45	66.49	66.49	67.79

(For Current Prices see Page 9)

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lasses was used in the manufacture of ethyl alcohol during the January-July period of 1955. This compared with 36,400,000 million used during the same period a year ago. Molasses usage in ethyl alcohol manufacture during July, 1955, amounted to 6,400,000 gallons.

Silver Nitrate—Production of silver nitrate (100 percent $AgNO_3$) during July aggregated 5,086,000 ounces, according to the Bureau of the Census, compared to 4,911,000 ounces produced in June, and 4,643,000 ounces during July, last year.

Stocks of silver nitrate at producing plants amounted to 4,329,000 ounces as of July 31, compared to the 3,937,000 ounces on hand on June 30 of this year.

Demand for silver nitrate was reported to be running at a steady rate while supplies were adequate to accommodate consumer needs and expected to continue in the immediate future. Prices were steady.

Thiamin—Inquiry for thiamin was said to be routine. Overall consumption of thiamin salts has been reported on the rise, particularly in view of the lower prices which have stimulated sales of various multi-vitamin compounds. Increasing quantities of thiamin are being used in the fortification of foods in addition to the strides in its usage in medicinals.

The influx of lower priced imports continues to be a source of irritation to domestic producers of the vitamin. Despite substantial price cuts in the past 12 month period, foreign producers have maintained a foothold in some segments of the market as a result of subsidies granted by their own government which have enabled them to continue to undercut American producers.

The price pattern appears slated for no change in the immediate future according to trade prognosticators. Any contemplated changes for the coming quater should have been already made so that a logical conclusion was for continued stability, pricewise, through the year end.

Methionine—Consumption of methionine was reported to be on the increase. Its use as a poultry feed supplement continues to account for a substantial percentage of the amount consumed and research in its medical aspects is expected to see more uses uncovered in the future.

Recent reports from several researchers working independently in the United States and abroad have demonstrated the ability of methionine to protect against irradiation injuries. In the experiments, X-rays were used as the irradiation source and various laboratory animals were tested. The test animals were fed methionine prior to the exposure. Even under massive doses of irradiation the test animals remained relatively unharmed. On the other hand, the control animals showed skin lesions, some mortality and other typical evidences of irradiation damage.

This protective effect of methionine may be related to its previously reported ability to speed restoration of damaged tissue following burns, wounds and related skin injuries, it was noted.

Botanicals

The spot market featured a number of botanicals which have firmed, pricewise, in recent weeks. Mandrake root collections this year were smaller than anticipated earlier in the season. Dry weather conditions earlier in the year baked the ground hampering collections. Dry weather conditions nave also resulted in another curtailed yield of lobelia herb. Spot market quotations have advanced on this item. Witch hazel leaves were firmer, pricewise, and goldenseal root appeared to have also gained in strength.

On the whole. consumer inquiry was proceeding about as expected. There was a brisk demand for botanicals which go into cough and cold remedies such as white pine and wild cherry barks which are perennial favorites in this application. Cascara sagrada bark was also noted to be in good demand with prices firm.

Cascara Sagrada Bark—The spot market has reportedly firmed on this botanical although, on the whole, supplies were expected to be sufficient to meet trade requirements. The current market was said to be in the neighborhood of 32c. per pound.

Hellebore Root—There has been some lowering in the spot price as a result of new crop material coming into the market. The current prevailing quotation was around 65c. per pound, on spot. Demand for hellebore was reported to be active and supplies generally ample to meet consumers' needs.

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Battelle Institute Completes A New Chemistry Building

Battelle Institute, Columbus, Ohio, has announced the completion of a new $1,400,000 chemistry building. Seven of the nine divisions of the chemistry department, as well as one of the chemical engineering divisions, are housed in the new space.

The new building, which makes about 50 per cent more laboratory space available for chemical research, will afford room for continued growth. The four-story building is sixty-six by 290 feet with a sixty-six by sixty-six-foot wing that houses offices and conference rooms. An eleven by twenty-six-foot module was used taroughout, with most laboratories being one or two modules in size. Some larger areas for activities such as plastics and rubber processing and for chemical engineering pilot-plant studies are also provided. Special features include constant-temperature—humidity rooms, and an explosion-proof area for polymerization studies on highly combustible materials such as butadiene.

Foster D. Snell Appoints Miss Muriel Warner to Staff

Miss Muriel E. Warner, former director of the American Medical Association microbiological laboratory, has joined the staff of Foster D. Snell, Inc., New York. In announcing the appointment, Dr. A. Haldane Gee, director of bacteriology and toxicology, outlined plans for extending the serivces of Snell in the microbiological and pharmaceutical fields.

Miss Warner, who will be available for client consultation and special project supervision on these fields, will have a special laboratory staff in the Snell head office building. Her work will be coordinated with all of the services the firm offers at present, especially in the disinfectant field and on problems requiring clinical investigation.

Sorbic Acid Bulletin Is Offered By Carbide & Carbon Chemicals

Carbide & Carbon Chemicals Company, a division of Union Carbide & Carbon Corporation, New York, has released an eight-page bulletin on "Sorbic," its food grade of sorbic acid. Physical properties, solubilities, shipping data, physiological properties, and food uses are discussed.

"Sorbic" has been used as a preservative in processed cheeses, pickles, citrus products, salads, baked goods, and sirups, the company stated. Preliminary laboratory data indicate it controls spoilage in fresh fruits, vegetables and berries, according to Carbide. Copies of the bulletin are available by writing to Carbide at 30 East 42nd street, New York 17.

Merck Honors Johnstone For 25 Years of Service

Henry W. Johnstone, senior vice-president of Merck & Co., Newark, N. J., and president of the company's chemical division, recently completed twenty-five years of association with the company. In observance of the anniversary, Mr. Johnstone was honored by his Merck associates at a dinner and was inducted into the quarter century club, the company's organization of long-service employees.

Mr. Johnstone joined Merck in 1930 and was appointed manager of the Rahway plant the following year. He became vice-president in charge of operations in 1936. He was elected to the board of directors in 1945 and became senior vice-president of the company in 1950. Following the merger of Sharp & Dohme, Inc., with Merck in 1953, he assumed the additional duties of president of the chemical division.

AEC to Expand Facility At Rocky Flats, Colorado

Further expansion of the Atomic Energy Commission's Rocky Flats, Colo., plant by construction of two new buildings and related facilities and by modification of three existing buildings was announced last week.

The new facilities, modification, and equipment will cost approximately $13,500,000. Preparatory work will begin in a short time and completion is scheduled for early 1957.

The present Rocky Flats plant, about eight miles from Boulder and approximately seventeen miles northwest of Denver, was begun in 1951 and completed in 1953. Dow Chemical Company, Midland, Mich., operates the plant for AEC.

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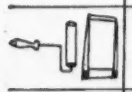	Latex base paint	0.1 -0.2%	Suspension, maintain wet edge, thickener
	Brazing Compounds	0.5 -1.0%	Suspension metal oxides
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	Automobile and Leather polishes	0.1 -0.5%	Provide uniformity by emulsification and suspension
	Enamels	0.02- .08%	Suspending, bodying agent, uniform flow and coverage, bisque strength
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Chemicals Foreign Trade Held Steady During July

United States foreign trade in chemicals and related products remained relatively stable during July as compared with June, according to preliminary total figures released by the Bureau of Census last week.

Exports during the month amounted to $86,800,000, an increase of about $300,000 over June, while imports declined from $19,600,000 to $18,300,000.

The totals for all merchandise in foreign trade showed declines from June in the case of both exports and imports. The value of all exports fell from $1,316,600,000 in June to $1,266,700,000 in July. Exports were also 2 percent below the July 1954 total of $1,291,100,000. Military exports fell only slightly from $128,000,000 in June to $127,800,000 in July, but were 52 percent below the July, 1954, total of $267,600,000.

General imports dropped from $938,500,000 in June to $885,100,000 in July, but were $63,300,000 more than the July, 1954, value of $821,800,000.

Synthetic Rubber Expansion Is Studied by Goodrich-Gulf

Goodrich-Gulf Chemicals, Inc., Cleveland, Ohio, has announced that it is studying engineering surveys that may lead to a major expansion program in the foreseeable future in order to meet the tremendous increase in national demand for synthetic rubber. The company stated that production in its butadiene plant, recently purchased from the government, had increased 88 percent in the first three months of the year over a similar period of 1954 and that its synthetic rubber output was up 87 percent over the same period.

ACS Iowa Medal Awarded Dr. Fetzer of Clinton Foods

Dr. Walter R. Fetzer, chemist of Clinton Foods, Inc., Clinton, Iowa, has won the 1955 Iowa Medal of the American Chemical Society's Iowa section, it has been announced. The medal will be presented to Dr. Fetzer at a banquet of the section in Iowa City, Iowa, on October 28. Dr. Fetzer is noted for his achievements in the chemistry of cereals, corn and sugars.

Aromatic Products Appoints

Aromatic Products, Inc., New York, thas appointed Sol Kaplan, of L. E. Offutt Company, Memphis, Tenn., as the new Aromatics Products sales representative for the state of Tennessee.

Sergeant Vice-President to Europe

Albert F. Reisch, vice-president of E. M. Sergeant Pulp & Chemical Company, New York, has left on a month-long business trip to Europe. Mr. Reisch will call on chemical companies in Holland, Germany, Switzerland, France, Belgium and Spain. He is accompanied by Mrs. Reisch.

Lakeside Labs Expanding

Lakeside Laboratories, Inc., Milwaukee, Wis., is expanding its organic chemistry division. New research facilities and additional space are being provided. The expansion stems from the firm's new fields of interest, which now include respiratory conditions. A series of bronchodilator drugs has been sysnthesized and is already under extensive clinical test.

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Current Prices

—Continued from page 32

Yellow, iron oxide, natural, French type, bgs., c.l., works lb. .05¼ - —
Peruvian type, bgs., l.c.l lb. .038 - —
pure, bgs., c.l., works lb. .11½ - —
l.c.l., works lb. .11¾ - —
Mercury oxide, bbls., 1,000-lb. lots, lb. 5.53 - —
smaller lots lb. 5.60 - —
Ocher (see Yellow, iron oxide, natural).
Zinc (chromate), bbls., dlvd lb. .26 - —
basic, dlvd lb. .31 - —
Yerba santa leaves, bls lb. .40 - .42
Yohimbine hydrochloride, bots, tin oz. 4.50 - —

Z

Zein, bgs., 36,000-lb. lots or more lb. .38 - —
1,000 to 36,000-lb. lots, works lb. .40 - —
smaller lots, works lb. .43 - —
Zinc acetate, NF VIII, dms lb. .53 - —
tech., dms., works lb. .27 - —
Borate, bgs., c.l., dlvd E lb. .192 - —
f.c.l. dlvd E lb. .202 - —
Chloride, NF, gran., dms. lb. .42 - —
precipitated powd dms lb .25 - —
soln., 50%, dms., c.l., works, 100 lbs. 5.50 - —
l.c.l., works 100 lbs. 6.10 - —
tanks, works 100 lbs 4.85 - —
tech., fused, dms., c.l., works, 100 lbs. 10.10 - —
l.c.l., works 100 lbs. 10.60 - —
gran., lib., dms., c.l., works, 100 lbs. 10.85 - —
l.c.l., works 100 lbs. 11.35 - —
Chromate (see Yellow, zinc).
Cyanide kgs., 1,000-lb. lots or more works lb. .523 - —
smaller lots, works lb. .543 - —
Dust, pigment, bbls., c.l., works, lb. .16¼ - —
l.c.l., works lb. .17¼ - —
Fluoride bbls., works lb. .49 - .50
Hydrosulfite, dms., c.l., frt. alld lb. .21½ - —
l.c.l., frt. alld lb. .22 - .37¼
Metal, prime western slabs, E. St. Louis lb. .13 - —
New York lb. .13½ - —
Naphthenate, liq., 8% Zn., dms., frt. alld lb. .24½ - —
10% Zn. dms. frt alld lb. .20 - —
Oxide, pigment, American process, lead-free bgs., c.l., frt. alld lb. .14 - —
l.c.l., same basis lb. .15 - —
leaded 25%, bgs., c.l., millsd, frt. alld. lb. .14⅝ - —
l.c.l., same basis lb. .15⅜ - —
50%, bgs., c.l., same basis lb. .14⅝ - —
l.c.l., same basis lb. .15⅜ - —
French process, coml., green seal, bgs., c.l., frt. alld lb. .15¾ - —
l.c.l., same basis lb. .16¼ - —
red seal, bgs., c.l., same basis lb. .15¼ - —
l.c.l., same basis lb. .16¼ - —
white seal, bgs., c.l., same basis lb. .16¼ - —
l.c.l., same basis lb. .17¼ - —
USP, etns., c.l., frt. alld lb. .17¼ - —
l.c.l., same basis lb. .18¼ - —
Zinc oxide Pac. coast prices 1c. higher.
Phenolsulfonate, NF, gran., dms. lb. .39 - —
powd., dms. lb. .42 - .49
Zinc resinate, precip., 7.2-7.6% Zn, dms., frt. alld lb. .29 - —
Silicofluoride, bbls., works lb. .12½ - .14
Stearate, tech., USP, etns., c.l., lb. .37 - —
l.c.l., lb. .38 - .42
Sulfate, cryst., 22% ZN, bgs., c.l., works, frt. alld 100 lbs. 8.05 - —
l.c.l., same basis 100 lbs. 8.60 - —
flake, 25½%, Zn, bgs., c.l., works, 100 lbs. 6.00 - 7.40
l.c.l., works 100 lbs. 7.00 - 7.90
powd., monohydrate, 36% Zn, bgs., c.l., dlvd E 100 lbs. 8.50 - —
l.c.l., dlvd. E 100 lbs. 9.50 - —
Zinc sulfate in bbls. 40c. higher.
USP, gran dms lb. .26 - —
Sulfide, pure, bgs., c.l., dlvd lb. .2530 - —
Undecylenate, dms. lb. 2.25 2.50
Yellow (see Yellow, zinc).
Zinc-ammonium chloride, bgs., c.l., works 100 lbs. 9.65 - —
bbls., c.l., works 100 lbs. 10.25 - —
l.c.l., works 100 lbs. 10.75 - —
Zinc-formaldehyde sulfoxylate, basic, dms., c.l. lb. .25½ - —
l.c.l. lb. .26 - .41½
normal dms., l.c.l., works lb. .52 - —
Zircon (G), gran., bgs., c.l., works, lb. .03½ - —
5 tons to c.l., works lb. .03⅝ - —
1 ton to 9,999-lb. lots, works, lb. .04 - —
smaller lots, works lb. .06½ - —
milled, bgs., c.l., works lb. .04⅛ - —
5 tons to c.l., works lb. .04⅜ - —
1 ton to 9,999-lb. lots, works, lb. .04⅝ - —
500 to 1,999-lb. lots, works, lb. .07½ - —
Zircon (G) in barrels, lc. higher.
Zirconium acetate, 13% soln. ZrO_2, c.l., 30,000 lbs. minimum, works lb. .23 - —
Hydride, cns., works lb. 7.00 8.45
Nitrate, dms., ex whse lb. 4.50 7.00
Oxide, 92½%-99%, white, grd., bbls., or bgs., works lb. 1.50 - —
lump, electric-fused, bgs., c.l., works lb. .44 - —
5-ton lots, works lb. .44½ - —
1 ton to 9,999-lb. lots, lbs., works lb. .45 - —
CP, white, grd., bbls., or bgs., works lb. 1.50 - —
lump, electric fused, bags, 500 to 1,999-lb. lots, works lb. .45½ - —
smaller lots, works, lb. .48 - —
milled, electric-fused, bgs., c.l., works lb. .59 - —
5-ton lots, works lb. .59½ - —
1 ton to 9,999-lb. lots, works lb. .60 - —
500 to 1,999-lb. lots, works lb. .60½ - —
smaller lots, works, lb. .63 - —
Oxychloride, cryst., etns., 5-ton lots, works lb. .35½ - —

Trade Briefs

Continental Can Company, New York, has named Dr. Robert M. Brick director of its department of metallurgy.

Chemstrand Corporation, Decatur, Ala., has announced the resignation of William S. Moore as service superintendent for research and development.

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ANNATTO SEED—100 bgs, Marcel Calvet, Ciudad Trujillo
64 bgs, Callao
ANTIMONY OXIDE—500 bgs, National Lead Co, Liverpool
REGULUS—30 cs, C Gitlan, Antwerp
ARABIC GUM—250 bgs, Orbis Products Corp, Port Sudan
500 bgs, T M Duche & Sons, Port Sudan
600 bgs, Morningstar Nicol, Port Sudan
ASBESTOS FIBER—1,000 bgs, Johns Manville Corp, Lourenco Marques
1,800 bgs, Johns Manville Corp, Beira
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97 bgs, Guaranty Trust Co, Beirut
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49 bgs, Bank of N Y, Lisbon
21 bgs, Hollander Trading Corp, Port au Prince
200 bgs, Marcel Calvet, Ciudad Trujillo
34 bgs, Curacao Trading Co, Ciudad Trujillo
50 bgs, Porcella Vicini & Co, Puerto Plata
71 bgs, Puerto Barrios
100 bgs, Rio de Janeiro
30 bgs, Ciudad Trujillo
BERGAMOT OIL—40 hlf cs, Citrus & Allied Essential Oils, Messina
6 hlf cs, Antoine Chiris, Messina
80 qtr cs, Fritzsche Bros, Messina
14 hlf cs, Noville Essential Oils, Messina
8 hlf cs, Messina
BLEACHING POWDER—150 dms, Chemical Manufacturing Co, Liverpool
BROMOISOVALERIUREA—2 dms, Bilhuber Knoll Corp, Cartagena
CADMIUM—9 cs, Cerro de Pasco Corp, Callao
CARAWAY SEED—100 bgs, J Pechman & Co, Rotterdam
100 bgs, Biddle Purchasing Co, Rotterdam
600 bgs, Rotterdam
CARDAMOM SEED—25 cs, Wm E Martin, Puerto Barrios
CARNAUBA WAX—600 bgs, Rotterdam
CASEIN—1,000 bgs, Borden Co, Buenos Aires
100 bgs, F H Paul & Stein Bros, Buenos Aires
402 bgs, American Plastics Corp, Bordeaux
CASHEWNUTSHELL LIQUID—130 dms, Mitchel Beck, Lourenco Marques
CASSIA—438 bls, Rotterdam
CASTOR BEANS—638 bgs, Spencer Kellogg, Port de Paix
5,080 bgs, Baker Castor Oil Co, Salvador
628 bgs, Spencer Kellogg, Port Au Prince
360 bgs, Spencer Kellogg, Gonaives
OIL—350 tons, Woodward & Dickerson, Salvador
CELERY SEED—20 bgs, Wm M Allison & Co, Marseille
20 bgs, R J Spitz, Marseille
CHESTNUT EXTRACT—1,090 bgs, Tanimex Corp, Marseille
4,066 bgs, Barkey Importing Co, Genoa
1,400 bgs, Chase Manhattan Bank, Naples
1,000 bgs, Tanimex Corp, Bordeaux
LEAVES—16 bls, S B Penick & Co, Genoa
CHLORAL HYDRATE—8 cks, Antwerp
CHOLESTEROL—3 dms, Tupman Thurlow, London
CINNAMONLEAF OIL—28 dms, Zanzibar
CITRONELLA OIL—6 dms, Ludwig Mueller, Rotterdam
6 dms, Borneo Sumatra Trading Co, Rotterdam
4 dms, Chase Manhattan Bank, Marseille
15 dms, Rotterdam
COALTAR DYES—27 dms, Hensel Bruckmann & Lorbacher, Rotterdam
CODLIVER OIL—27 dms, Arista Oil Products Co, Alesund
100 dms, Norwich Pharmacal Co, Bergen
361 dms, National City Bank, Leixoes
COPAL GUM—248 bgs, Internatio Rotterdam, Manila
85 bgs, O G Innes Corp, Matadi
85 bgs, S Winterbourne & Co, Matadi
COTTON LINTERS—55 bls, Cowa Trading Co, Piraeus
894 bls, Lush Cotton Products, Hamburg
221 bls, Antwerp
CREAM OF TARTAR—100 bbls, Barcelona
CRESYLIC ACID—50 dms, Republic Chemical Corp, Liverpool
300 dms, George F Smith Inc, Liverpool
50 dms, M W Hardy & Co, London
CUMIN SEED—950 bgs, H D Sheldon & Co, Khorramshahr
272 bgs, Curacao Trading Co, Khorramshahr
CUTTLEFISH BONE—50 cs, Hershey & Co, Bordeaux
292 cs, Bordeaux
DEXTRIN—300 bgs, Paisley Products, Rotterdam
FENNEL SEED—2 dms, Magnus Mabee & Reynard, London
FERRICYANIDE—65 bbls, Atlantic Raw Materials, Hamburg
FISHLIVER OIL—3 dms, Interocean Chemical & Minerals Corp, Yokohama
FRENNDS ACID—1 ck, Peerless Color Co, London
FUEL OIL—113,700 bbls, Esso Standard Oil Co, Aruba
133,000 bbls, Esso Export Corp, Aruba
133,948 bbls, Metropolitan Petroleum Corp, Curacao
10,000 bbls, Asiatic Petroleum Corp, Curacao
55,169 bbls, Shell Caribbean Oil Co, Punta Cardon
GALL—6 dms, F J Benkart, Vera Cruz
OX—18 bbls, B M T Commodity Corp, Santos
GALLIC ACID—4 bbls, Fine Organic Products, Antwerp
12 dms, Glasgow
GELATIN—30 dms, Hensel Bruckmann & Lorbacher, Rotterdam
GLUE—255 bgs, Jung Forwarding Co, Liverpool
20 bgs, Jung Forwarding Co, London
PEARL — 331 bgs, Transatlantic Animal By Products Corp, Rotterdam
STOCK—314 bgs, R B & A C Whiting Co, Liverpool
GLYCERINE—73 dms, Colgate-Palmolive-Peet Co, Marseille
40 dms, Otto Gerdau, Yokohama
GLYCOL MONOSALICYLATE—18 dms, Whitehall Pharmacal Co, Liverpool
GUANIDINE NITRATE—23 dms, Terra Chemicals Inc, Bremen
GYPSUM—24,680 tons, U S Gypsum Co, Hantsport
5,275 tons, Newark Plaster Co, Walton
224 bgs, Whittaker, Clark & Daniels, Liverpool
INDIGO—8 dms, General Aniline & Film Corp, Rotterdam
IODINE, CRUDE—60 kgs, Chase Manhattan Bank, Yokohama
IPECAC ROOT—5 bgs, Curacao Trading Co, Port Limon
5 bls, Rotterdam
KAOLIN—48 kgs, E Fougera & Co, London
KOLA NUTS—63 bgs, Meer Corp, Kingston
LACTOSE—250 dms, Chas L Huisking & Co, Liverpool
LAUREL LEAVES—64 bls, Louis Furth, Izmir
LEMONGRASS OIL—25 dms, Puerto Barrios
LICORICE ROOT—37 bgs, S B Penick & Co, Beirut
LIME OIL—4 dms, Port Au Prince
LIVER EXTRACT—27 cs, Millet Roux & Co, Buenos Aires
LOCUSTBEAN GUM—400 bgs, Morningstar Nicol, Genoa
50 bgs, Rotterdam
LOGWOOD EXTRACT—57 cks, American Dyewood Co, Kingston
MACE—54 cs, Borneo Sumatra Trading Co, Rotterdam
30 cs, A G Dunn, Rotterdam
7 cs, Rotterdam
MANDARIN OIL—4 cs, National City Bank, Messina
4 bf cs, Dodge & Olcott, Messina
MANGROVE BARK—710 bgs, Barkey Importing Co, Lourenco Marques
290 bgs, Olson Sales Agency, Lourenco Marques
MENTHOL—286 cs, Bank of London & S A, Rio de Janeiro
METHYLENE BLUE — 1 dm, Allied Chemical & Dye Corp, Cristobal
MONTAN WAX—100 bgs, Koster Keunen, Rotterdam
MUSTARD SEED—200 bgs, Becker Mayer Seed Co, Copenhagen
320 bgs, C Gulden, London
200 bgs, C Gulden, Naples
NAPHTHALENE—335 bgs, Gallard Schlesinger, Hamburg
144 bgs, Gallard Schlesinger, Harve
NICKEL SULFATE—400 bgs, Bremen
NICOTINIC ACID—25 kgs, R J Saunders, Gothenburg
NIGROSINE — 1 cs, Allied Chemical & Dye Corp, Cristobal
NUTMEG—65 bgs, Rotterdam
OCHER—1,568 bgs, Mossel Bay
OCOTEA CYMBARUM OIL—20 dms, River Plate Corp, Itajai
OLIVE OIL—68 dms, National City Bank, Barcelona
OPIUM—250 cs, Chase Manhattan Bank, Istanbul
ORANGE PEEL—50 bgs, S B Penick & Co, Cap Haitien
ORGANO—84 bls, M J Golembeck, Piraeus
110 bgs, International Expediters, Piraeus
605 bgs, A Milner, Piraeus
ORRIS ROOT—200 bgs, Leghorn
OURICURY WAX—58 bgs, Strahl & Pitsch, Salvador
PALM OIL—423 tons, Balfour Guthrie, Boma
PALMKERNEL OIL—250 crts, B M T Commodity Corp, Rotterdam
349 tons, Matadi
PAPAIN—45 cs, East Asiatic Co, Dares Salaam
PATCHOULI LEAVES—44 bgs, L A Champon & Co, Mombasa
PEATMOSS—1,300 bls, E J Lang, Hamburg
250 bls, Gelleo Inc, Hamburg
500 bls, Gelleo Inc, Bremen
500 bls, National Distributors, Hamburg
1,000 bls, Lion Trading Co, Hamburg
1,500 bls, Lion Trading Co, Bremen
2,045 bls, E J Lang, Bremen
3,050 bls, Trans Sphere Trading Co, Bremen
500 bls, National Distributors, Bremen
1,426 bls, J E Bernard, Bremen
500 bls, New Amsterdam Import Co, Bremen
987 bls, W Heimann, Bremen
1,400 bls, Bruco Peatmoss Corp, Bremen
1,000 bls, Marine & Animal By Products Corp, Bremen
1,100 bls, Halfmoon Manufacturing & Trading Corp, Rotterdam
2,895 bls, C Gastmeyer, Rotterdam
8,414 bls, Premier Peatmoss Corp, Bremen
PECTIN—47 kgs, Jaibro Corp, Gothenburg
PETITGRAIN OIL—2 dms, Port Au Prince
PETROLEUM, CRUDE — 201,651 bbls, California Oil Co, Sidon
PIMENTOLEAF OIL—1 dm, Felton Chemical Co, Kingston
2 dms, Norda Essential Oil & Chemical Co, Kingston
1 dm, W J Bush & Co, Kingston
POTASSIUM PERCHLORATE—50 cks, C Hardy, Havre
POTATO STARCH—100 bgs, Rotterdam
PSYLLIUM SEED—25 bls, S B Penick & Co, Marseilles
PYRITES—151 cks, American Metal Co, Leixoes
QUEBRACHO EXTRACT—978 bgs, River Plate Corp, Buenos Aires
1,013 bgs, Barkey Importing Co, Buenos Aires
RAUWOLFIA ROOT—2 bgs, E R Squibb & Sons, Matadi
HETEROPHYLLA ROOT—80 bgs, Puerto Barrios
SALICYLIC ACID—105 dms, R J Saunders, Rotterdam
60 dms, Industrial Chemical & Dye Corp, Rotterdam
19 dms, Frank Samuel & Co, Rotterdam
SESAME SEED—160 bgs, Khorramshahr
SHELLAC— 40 bbls, F H Paul & Stein Bros, Rotterdam
25 bgs, Dings & Schuster, Bremen
SIENNA—120 bgs, Reichard Coulston, Leghorn
SOAPBARK—192 bls, S B Penick & Co, San Antonio
SODIUM ALGINATE—50 dms, Stein Hall & Co, Glasgow
BICARBONATE—1,000 bgs, Chemical Manufacturing Co, Liverpool
BICHROMATE—100 dms, Ferro Metal & Chemical Corp, Durban
SPERM OIL—1,604 tons, Werner Smith Inc, Yokohama
1,070 tons, Swift & Co, Yokohama
291 tons, Pisco
TALC—400 bgs, Whittaker, Clark & Daniels, Bordeaux
1,000 bgs, C B Chrystal Co, Bordeaux
TANNIN ALBUMINATE—1 dm, Bilhuber Knoll Corp, Cartagena
TANNING EXTRACT—16 dms, Geigy Chemical Corp, Rotterdam
TAPIOCA — 500 bgs, Stein Hall & Co, Itajai
417 bgs, Standard Brands Inc, Itajai
FLOUR—2,800 bgs, Stein Hall & Co, Imbituba
1,500 bgs, American Metagraph Co, Imbituba
6,399 bgs, Stein Hall & Co, Itajai
2,000 bgs, Morningstar Nicol, Itajai
833 bgs, Harry F R Dolan, Itajai
TARA EXTRACT—10 bbls, American Dyewood Co, Liverpool
TETRALKYTHIOPYROPHOSPHATE — 1 dm, Chemagro Corp, Rotterdam
THALLIUM SULFATE—1 cs, Lo Curto & Funk Rotterdam
THEOBROMINE CALCIUM SALICYLATE—1 dm, Bilhuber Knoll Corp, Cartagena
THIAMINE HYDROCHLORIDE—40 dms, National City Bank, Yokohama
THYROID POWDER—5 dms, Industrial Chemical & Dye Co, Copenhagen
TRAGACANTH GUM—15 cs, P A Dunkel & Co, Khorramshahr
5 cs, S B Penick & Co, Khorramshahr
143 cs, Amiran Co, Khorramshahr
28 bgs, Amin Hakim, Khorramshahr
40 cs, V Simidian & Co, Khorramshahr
19 cs, Khorramshahr
39 bgs, Khorramshahr
TRICHLOROETHYLENE—277 dms, Chemical Manufacturing Co, Liverpool
UREA, SYNTHETIC—4,000 bgs, Chemical Manufacturing Co, Liverpool
VALONIA BEARDS—1,538 bgs, M E Bensignor, Izmir
VANILLA BEANS—7 cs, George Uhe Co, Marseille
VETIVER OIL—3 dms, Port au Prince
VITAMIN B12—3 cs, Byco Ltd, Kobe
WATTLE EXTRACT—375 bgs, Barkey Importing Co, Mombasa
WHITING—1,300 bgs, Pluess Staufer, Antwerp
2,200 bgs, Antwerp
WOOL GREASE—5 dms, Eelsingh & Lugtigheid, Rotterdam
WAX—4 dms, Olympic Shipping Co, Liverpool
ZINC SULFIDE—800 bgs, C J Osborn Co, Rotterdam

Baltimore

MACE—50 bgs, Rotterdam
PEATMOSS—2,597 bls, Premier Peatmoss Corp, Bremen

Boston

POLLACKLIVER OIL—100 dms, Wilbur Ellis Co, Yokohama

Los Angeles

ARABIC GUM—140 bgs, Merchants National Bank, Port Sudan
BONEMEAL—2,223 bgs, Fred H Lenway & Co, Alexandria
2,205 bgs, Marine & Animal By-Products Corp, Genoa
CASEIN—272 bgs, Buenos Aires
700 bgs, Borden Co, Buenos Aires
COPRA—92 tons, American Trust Co, Davao
112 tons, American Trust Co, Tabaco
618 tons, Proctor & Gamble Co, Jolo
247 tons, Proctor & Gamble Co, Jasipit
328 tons, Proctor & Gamble Co, Cebu
CAKE—2,240 bgs, Pacific Vegetable Oil Corp, Manila
200 tons, Van Waters & Rogers, Manila
2,000 bgs, Cargill Inc, Manila
2,240 bgs, Balfour Guthrie, Iloilo
2,240 bgs, Balfour Guthrie, Manila
CREOSOTE OIL—72,311 tons, Shimizu
LIVER OIL—50 dms, Frank P Dow Co, Otaru
MOLLASSES—9,328 tons, Iloilo
PEPPER—70 bgs, Internatio Rotterdam, Philippines
PETROLEUM, CRUDE—16,027 tons, The Texas Co, Las Piedras
SEEDLAC—250 bgs, Calcutta
SERPENTINA ROOT—439 bgs, H H Elder & Co, Madras

Norfolk

PEATMOSS—600 bls, Trans Sphere Trading Co, Bremen
800 bls, Premier Peatmoss Corp, Bremen
STARCH—700 bgs, Rotterdam

Philadelphia

CALCIUM PHOSPHATE, DIBASIC—800 bgs, Antwerp
CLAY, BALL—1,901 tons, Avonmouth
CHINA—4,360 bgs, English China Clay Sales, Avonmouth
CRYOLITE—2,350 tons, Penna Salt Co, Ivigtut
DICALCIUM PHOSPHATE—800 bgs, Antwerp
FLUORAL—2,000 bgs, Chas Kurz Co, Copenhagen
FUEL OIL—102,110 bbls, Shell Oil Co, Curacao
35,000 bbls, Esso Export Corp, Aruba
NAPHTHALENE—3,505 bgs, Gdynia
200 bgs, Antwerp
2,937 bgs, Rotterdam
PEATMOSS—200 bls, Shute Co, Copenhagen
5,100 bls, Premier Peatmoss Corp, Bremen
700 bls, Keer Maurer, Bremen
1,000 bls, Vandergrift Co, Bremen
250 bls, C Fatard, Bremen
500 bls, Vuyk Van Nes Nurseries, Bremerhaven
1,550 bls, Premier Peatmoss Corp, Bremerhaven
PETROLEUM, CRUDE—647,727 bbls, Gulf Oil Corp, Puerto La Cruz
498,118 bbls, Gulf Oil Corp, Mena Al Ahmadi
171,589 bbls, Gulf Oil Corp, Las Piedras
183,950 bbls, Socony Mobil Oil Co, Mena Al Ahmadi
239,618 bbls, Socony Mobil Oil Co, Covenas
115,108 bbls, Atlantic Refining Co, Pamatacual
132,309 bbls, The Texas Co, Las Piedras
36,489 bbls, The Texas Co, Puerto La Cruz
117,775 bbls, The Texas Co, Pamatacual
198,437 bbls, The Texas Co, Sidon
WHITING—27 tons, Antwerp

San Francisco

AMMONIA CATALYST—3 dms, Dow Chemical Co, Gothenburg
AMMONIUM PICARBONATE—259 dms, C M C Chemicals Inc, London
ANTIMONY OXIDE—400 bgs, National Lead Co, Glasgow
REGULUS—45 cs, C Gitlan, Antwerp
BLEACHING POWDER—100 dms, C M C Chemicals Inc, London
CALCIUM CHLORIDE—1,000 bgs, C M C Chemicals Inc, London
800 bgs, C M C Chemicals Inc, Glasgow
FORMATE—336 bgs, C M C Chemicals Inc, Glasgow
HYPOCHLORITE—220 dms, Rosenthal Bereow, Yokohama
NITRATE—500 bgs, Antwerp
CARAWAY SEED—100 bgs, B C Ireland, Rotterdam
CASSIA—82 pkgs, Rotterdam
COCONUT OIL—329 tons, El Dorado Oil Works, Manila
COPAL GUM—140 bgs, H W Peabody, Manila
COPRA—500 tons, Cargill Inc, Iloilo
920 tons, Proctor & Gamble Co, Cebu
CAKE—2,240 bgs, San Pablo Oil Factory, Manila
CRESYLIC ACID—50 dms, Concord Chemical Co, Amsterdam
EARTH COLOR 450 bgs, Naftone Inc, Rotterdam
EPSOM SALT—400 bgs, Mattoon & Co, Bremen
GINGER—29 bgs, London
GLYCERINE—20 dms, Balfour Guthrie, Yokohama
HERRINGMEAL—4,000 bgs, Woodward & Dickerson, Esbjerg
9,000 bgs, Balfour Guthrie, Esbjerg
IRON SAND—200 bgs, D H Weiss Associates, Glasgow
LOCUSTBEAN GUM—25 bgs, T M Duche & Sons, Genoa
MOLASSES—3,562 tons, Pacific Molasses Co, Iloilo
NUTMEG—30 bgs, Wm E Martin, Port of Spain
50 bgs, Port of Spain
PEATMOSS—850 bls, Trans Sphere Trading Co, Bremen
750 bls, Lastreto Phillips Co, Bremen
23 bls, H M Newhall & Co, Rotterdam
PEPPER, BLACK—50 bgs, H M Newhall & Co, Salina Cruz
35 bgs, Ludwig Mueller, Singapore
PETROLEUM, CRUDE—116,480 bbls, Standard Oil Co, Sungai Pakning
POTATO FLOUR—2,205 bgs, Stein Hall & Co, Marseille
QUEBRACHO EXTRACT—160 bgs, Gothenburg
RED IRON OXIDE—40 bgs, Hull
SESAME SEED—50 bgs, B C Ireland, Corinto
400 bgs, Lastreto Phillips Co, Corinto
300 bgs, H M Newhall & Co, Corinto
100 bgs, Kennedy Butcher & Co, Corinto
SODIUM CYANIDE—61 dms, C M C Chemicals Inc, London
30 dms, C M C Chemicals Inc, Glasgow
TALC—50 bgs, All Brite Trading Co, Genoa
TAPIOCA FLOUR—1,000 bgs, East Asiatic Co, Bangkok
TRICHLOROETHYLENE—50 dms, C M C Chemicals Inc, London
150 dms, C M C Chemicals Inc, Glasgow
TUNG OIL—3 tons, Pacific Vegetable Oil Corp, Buenos Aires
UREA, SYNTHETIC—5,000 bgs, C M C Chemicals Inc, London
200 bgs, C M C Chemicals Inc, Glasgow
VITAMIN B12—3 cms, Byco Ltd, Kobe
WHITING—4,000 bgs, Antwerp
WOOL GREASE—26 dms, Bank of California, Hull

Philippine Copra Exports Hit 1954 Peak in August

Copra exports from the Philippines during August totaled 75,923 long tons, the largest monthly shipment so far this year, the Foreign Agricultural Service reported last week. Exports were 10 percent above the previous month but 7 percent less than in August, 1954. Cumulative shipments during the January-August period amounted to 488,962 tons or 2 percent more than the 477,921 tons exported in the comparable eight-month period of 1954.

Distribution of the August exports by countries was as follows:—United States, 25,709 tons (Pacific ports, 22,659 tons, Gulf ports, 1,700 tons and Atlantic ports, 1,350 tons); Canada, 1,250 tons; Belgium, 1,350 tons; Denmark, 7,000 tons; Republic of Germany, 7,540 tons; Italy, 1,500 tons, Netherlands, 11,860 tons; Norway, 500 tons, Sweden, 5,000 tons; Europe unspecified, 2,500 tons; Lebanon, 200 tons; Colombia, 2,800 tons; Ecuador, 101 tons; Venezuela, 6,113 tons, and South America unspecified, 2,500 tons.

August exports of coconut oil amounted to 4,540 tons compared with 6,009 tons in July. The January-August aggregate was 44,123 tons against 40,101 tons in 1954. Shipments were as follows:—United States, 4,412 tons (Atlantic, 3,732, Pacific, 680), and Ecuador, 128 tons.

On a copra equivalent basis, Philippine exports of copra and coconut oil from January through August of this year totaled 558,999 tons, or three percent more than the 541,573 tons exported in the same months of 1954.

Industry Health Parley

—*Continued from page 7*

formation gained through their own experiences.

The medical conference will bring management representatives together with industrial physicians for a discussion of the problems that arise between the two groups through misunderstandings of their respective functions and through poor communication and lack of sympathy with the other's problems. The subject before the panel is "Intra-Company Communication between the Medical Department and the Operating Departments." Mental health and the industrial physician's approach to the problem in industry will be featured on the program.

A joint medical and chemical-toxicological conference is an innovation at this year's meeting. The interdependence of the two fields in any truly effective preventive medical program will be demonstrated. Two toxicologists and two industrial physicians will describe research results for detecting early functional changes caused by excessive exposures to toxic materials, and their application by the medical profession. Management personnel are invited to participate in this session also.

Industrial hygiene aspects of ultrasonics will be taken up at the chemical-toxicological conference, along with other papers on analytical methods. The legal aspects of industrial health problems will be dealt with at the legal conference. Topics will include a legislative review of workmen's compensation and a discussion of the federal employers' liability act and the effect of litigation arising under the act upon industry. An attorney and an industrial physician will discuss from their respective standpoints the presentation of medical testimony in compensation cases.

A joint engineering-legal conference will be held for the first time featuring a panel discussion on "The Engineering and Legal Aspects of Management's Responsibility for the Control of Industrial Hazards." Three broad phases of discussion will be management's responsibility for air pollution control and prevention of occupational injuries, and its obligations under workmen's compensation laws. Representatives of management, medicine, industrial hygiene and engineering, insurance, labor and workmen's compensation will participate in the panel discussion.

The engineering conference will bring to the attention of plant engineers new developments and ideas on engineering measures that may have effects on the working environment. Included will be a discussion of developments in air and gas cleaning. Dr. C. Richard Walmer, managing director of the foundation, is in charge of arrangements. The meeting will be opened with a welcoming address by Dr. E. R. Weidlein, president of Mellon Institute.

Syntomatic Prepares New Catalog

Syntomatic Corporation, New York, has prepared a new edition of its catalog. Copies are available from the company at 114 East 32nd Street, New York 16.

Mutual Fertilizer Building Savannah Distribution Center

Mutual Fertilizer Company, Savannah, Ga., has announced that it has under way a project in Savannah to provide facilities for barge or tankcar discharge into bulk storage tanks with subsequent movement to the interior by rail or tank truck. Mutual holds a right of way on the Savannah River jointly with the Savannah District Authority.

The object of Mutual's project is to provide shippers of chemicals in liquid form with a saving in transportation by barge into Savannah, and to reduce the investment in tank cars compared to the long hauls now being made. The company also plans to include equipment to package products into drums, barrels, or carboys.

Mutual plans to build the tanks and equipment of special materials on order from users after their requirements are known. Inquiries should be addressed to the company at P. O. Box 666, Savannah.

Klumpp Tells ACS Meeting Of Heart Attack Mechanism

What a person happens to be doing at the time of a heart attack has very little bearing in bringing on the attack, according to Dr. Theodore G. Klumpp, president of Winthrop-Stearns, Inc., New York.

Speaking at the recent annual meeting of the American Chemical Society in Minneapolis, Minn., Dr. Klumpp said that "heart attacks, apoplexy and the like are the culmination of a gradual process of arteriosclerosis." It does not happen overnight, he stated, explaining that hardening of the arteries usually starts many years before an attack.

Contrary to popular belief, heart attacks do not occur more commonly while playing golf, tennis or during some other physical activity, Dr. Klumpp asserted. Studies show that almost half of heart attacks happen during sleep and only two per cent during physical exertion. "But those occurring under dramatic circumstances receive the publicity and the public, knowing nothing about the mechanism of the disease, gets the wrong impression," Dr. Klumpp said.

Bids Wanted

Barium sulfate, 1,300 10-lb. cans, Somerville, N. J., Wilmington, Calif., Hines, Ill., inv. A-89-A, Sept. 28, Vets. Adm., Procurement Div., Supply Service, Vets. Adm. Bldg., Washington 25, D. C.

Calcium chloride, 2,800,000 lbs., dihydrate, tech., inv. CML-10, Oct. 7, N. Y. Chem. Procurement Dist., 180 Varick St., N. Y. 14, N. Y.

Drugs, 5,256 bots., 1-lb., chloroform USP, 28,800 bots., 1-lb., hydrogen peroxide solution, USP, 10,416 bots. 1-lb., methyl salicylate USP, 21,600 bots., 1-lb. acetone ACS, 324 cans, 1-lb., ether absolute ACS, overseas pack, inv. 189, Sept. 30, Armed Services Med. Procurement Agency, 84 Sands St., Bklyn. 1, N. Y.

Ethyl alcohol, 3,700 gals., tech., Newport, Charleston, Norfolk, inv. 194, Oct. 3, Armed Services Medical Procurement Agency, 84 Sands St., Bklyn. 1, N. Y.

Fungicide, 10,000 gals., wood preservative, inv. 16, Sept. 29, Fort Worth Gen. Depot, Fort Worth, Tex.

Gases, oxygen, nitrogen, liquid and gaseous, for period from date of contract thru June 30, 1956, inv. N140-737, Oct. 6, Navy Purchasing Office, Navy Dept., 3rd Ave. & 29th St., Bklyn. 32, N. Y.

Insecticides, 1,108 containers DDT, 2,760 low pressure aerosol bombs, inv. 2B-68105-R, Oct. 5, Gen. Services Adm., Business Service Center, Region 3, 7th & D Sts., S. W., Washington 25, D. C.

Methanol, 26,360 gals., reagent, inv. 155-286, Oct. 4, Gen. Stores Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa.; 4,080 bots., 1-lb., methanol, ACS, overseas pack, inv. 189, Sept. 30, Armed Services Med. Procurement Agency, 84 Sands St., Bklyn. 1, N. Y.

Nitric acid, 61% tech., inv. 83, Sept. 28, Contracting Officer, Raritan Arsenal, N. J.

Paints, 24 gals. brushing lacquer, 500 gals. anti-corrosive ship bottom paint, 1,500 lbs. various colors, paste-in-oil, pigments, 500 gals. undercoat paint primer, 200 gals. deck, exterior non-skid paint, 100 gals. exterior, traffic paint, 60 gals. water resisting enamel, 8 qts. casein paint, inv. 5881-A, Oct. 7, Panama Canal Co., Procurement Div., 21 West St., N. Y. 6, N. Y.; 235 gals. enamel, 340 gals. paint, 6 gals. varnish, 55 gals. thinner, 35 gals. lacquer, etc., 10 items, inv. 53, Oct. 10, Contracting Officer, Army Chem. Center, Md.; 25 gals. silk screen, poster paint, 100 qts. general use spraying lacquer, varnish, inv. 84, Oct. 12, Contracting Officer, Aberdeen Proving Ground, Md.; 400 gals. ready mixed, concrete and masonry paint, for interior and exterior surfaces, 240 gals. white, lead base paint, 50 gals. ready mixed, exterior trim paint, 272 gals. ready mixed, interior, oil, flat, wall paint, 135 gals. ready mixed, titanium-lead-zinc and oil, exterior paint, 18 gals. ready mixed outside paint, inv. KC-40712, Oct. 3, Gen. Services Adm., Region 6, Business Service Center, 2306 E. Bannister Rd., Kansas City 14, Mo.; adhesives, lacquers, paint removers, pigments-in-oil, etc., term contract, inv. SECS-444, Oct. 3, Gen. Services Adm., Business Service Center, Region 10, 909 First Ave., Seattle 4, Wash.; 16,446 qts. interior, gloss enamel, East & West Coast, inv. 187, Oct. 12, 7,128 qts. and 1,215 gals. cellulose nitrate, gloss lacquer, Topeka AF Depot, inv. 203, Oct. 12, 163 kits gasoline and water resistant lacquer (for brushing, spraying or dipping), 3,120 bots. basic carbonate, white lead pigment, 600 gals. outside paint, East & West Coast, inv. 139, Oct. 12, Aviation Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa.

Salt, rock or pelleted, 5 or 20 tons, for regeneration of water softners, inv. 36-153, Oct. 4, Justice-Prisons, Fed. Prison Camp, Florence, Ariz.

Sodium thiosulfate, 30,000 lbs., inv. 3064, Oct. 4, Gen. Services Adm., Business Service Center, Region 8, Bldg. 41, Denver Fed. Center, Denver, Colo.

Trichloroethylene, 27,500 gals., tech., Jacksonville, Fla., inv. 155-(1)-290, Oct. 7, Gen. Stores Supply Office, Navy Dept., 700 Robbins Ave., Phila. 11, Pa.

Olin Chooses Rockefeller

Laurance S. Rockefeller has been elected a member of the board of directors of Olin Mathieson Chemical Corporation, New York. Mr. Rockefeller is president of Rockefeller Brothers, Inc., an investment and research organization founded in 1946 to survey the needs for venture capital in such fields as aviation, electronics and housing. He is a director of the Chase Manhattan Bank, Eastern Airlines, Inc., International Basic Economy Corporation, International Nickel Company of Canada, a member of the New York Stock Exchange and chairman of the board of Rockefeller Center, Inc.

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- SILVER DICHROMATE
- SILVER IODATE
- SILVER MERCURIC IODIDE
- SILVER PROTEINATE
- SILVER TELLURIDE
- SODIUM P-AMINOHIPPURATE
- SODIUM P-AMINOSALICYLATE
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Essential Oils, Aromatics, Flavorings

The spot market was relatively quiet last week in regards to the number of price changes reported. In the oils group, the strengthening trend noted in citronella quotations in recent weeks was further accentuated by a 10 cent increase in Ceylon quality. Formosan citronella continued in extremely tight supply with prices holding at a high level. The firming trend in the geranium oils was reflected in higher prices of palmarosa oil, which is a geranium oil type. On the decline was noted a 10 cent drop in artificial sassafras oil (camphor 1.070) which was attributed to the much improved supply position in both the 1.070 quality and ocotea cymbarum, another oil with which it has been interchanged.

The latest crop estimate on the mint oils indicated a further increase in peppermint oil production and a decline in spearmint as compared with last year's totals. As a result the spot market was easier on peppermint with prices declining while spearmint oil quotations held their ground.

The seeds and spices market was fairly active although the number of actual changes recorded was smaller than usual. The cardamom group was active with Guatemalan, decorticated seed advancing 30 cents on spot and the fancy, bold and selected, bleached grades off 7 cents and 15 cents, respectively. Dutch caraway seed dropped off ½ cent as did Moroccan coriander seed. Black pepper declined 3 cents, a move which reportedly reflected lower prices from India as a consequence of a reduction in the export levy on black pepper from that country.

On the advancing side last week were Indian fennel seed, niger seed and Yugoslavian, coriander seed, all of which rose ½ cent per pound.

Price Trends

Advanced

Cardamom seed, Guatemalan, decorticated, 30c. per lb.
Coriander seed, Yugoslavian, ½c. per lb.
Fennel seed, Indian, ½c. per lb.
Niger seed, ½c. per lb.
Oil, citronella, Ceylon, 10c. per lb.

Reduced

Caraway seed, Dutch, ½c. per lb.
Cardamom seed, fancy, bold, 7c. per lb.
selected, bleached, 15c. per lb.
Coriander seed, Moroccan, ½c. per lb.
Oil, sassafras, art., 10c. per lb.
Pepper, black, Malabar, 3c. per lb.

Comparative Price Indexes

(100—1949 average)

Last week	Prev. week	Last month	Sept. 24, 1954
134.56	134.57	134.66	138.10

(*For Current Prices see Page* 9)

Essential Oils

Camphor—The spot market was reported to be weaker in the face of easier consumer demand. The price of camphor 1.070 (artificial sassafras) oil was lower at a minimum of 75c., on spot. Supplies were ample to cover present needs and expected to continue in the immediate future.

Citronella—Formosan citronella oil was said to be virtually unobtainable last week. Prices were exiremely firm with a minimum of $2 per pound reported. Ceylon quality oil advanced 10c. on spot and was quoted at a low of $1.15 per pound. The supply situation in Formosan citronella was not expected to improve in the immediate future.

Geranium—The spot market continued to exhibit a very firm outlook, pricewise. Supplies were on the tight side although available.

Lemon—The market was quiet with quotations holding at firm levels. Supplies were adequate to cover trade needs and expected to continue in the immediate future.

Ocotea Cymbarum—The spot market was unchanged. Prices were somewhat easy in view of the increased availability of camphor 1.070 oil. Supplies were ample to meet trade requirements and expected to continue in the immediate future. The market at origin has been reported on the weak side, according to some trade quarters, as a result of the decline in consumer interest.

Orange—Quotations held unchanged. The tremendous production of orange juice and juice concentrates has resulted in a substantial output of orange oil in Florida. The result has been low prices and the probability of continued minimum prices for this quality oil, a factor which was expected to influence Californian oil as well.

Palmarosa—The market was quite firm on palmarosa oil in view of the general strength in all the geranium oils. Inquiry was reported brisk in some quarters while supplies were ample for current requirements of the trade.

Peppermint—The spot market gave increasing evidence of weakening from former levels last week. The recently published crop report on peppermint oil indicated an even greater yield than heretofore anticipated.

The final forecast of peppermint oil production is 1,769,000 pounds, an increase of 5 percent over the August 1 estimate, as a result of improved yields in all five producing states, the Crop Reporting Board of the Department of Agriculture recently stated.

In the midwest, weather during August was favorable for mint harvest, it was stated. In Michigan, the amount of foliage per acre had been reduced by freezing temperatures in May, but the yield of oil per ton of foliage was good.

In Oregon, weather for harvest was generally ideal, with distillation about 80 percent complete as of September 1. Harvest has been completed in western Washington, with yields averaging somewhat above last year. Dry weather had held rust in check. Fields made good growth during August in the Yakima Valley but still showed the effects of adverse early season weather.

Spearmint—The spot market continued firm in the face of reports that this year's crop, by estimate, would be substantially below that yielded in 1954.

The final forecast of production of spearmint oil remained at 603,000 pounds, virtually the same as that estimated in August. Increased yields in Indiana were almost enough to offset an indicated decline in yield in Washington. Yields are low in Michigan this year due to May freeze damage which thinned stands, and weakened surviving plants. Distilling of first cuttings has been nearly completed in Washington where yields are turning out below earlier expectations. Second cuttings to be made about October 1 will be less than anticipated earlier due to the lateness of the season, it was said.

Miscellaneous

Anise Seed—Spanish anise seed continued firm with the market reported at 28c. to 29c. per pound.

Caraway Seed—Dutch caraway seed has dropped a half cent per pound from the previous weeks price of 18c. The current price ranged from 17½c. to 18c.

Cardamom Seed—Fancy bold cardamom took a 7c. drop last week, falling from $3.95 the pound, to $3.88. Select bleached cardamom declined 15c. to $3.65 a pound, from the old level of $3.80. Guatamalan decorticated rose 30c., to $2.55 a pound, from $2.25. Ceylon green continued steady at $1.90 a pound.

Cassias—Most grades had been inactive but prices have not changed materially for the last three months. Import business has been discouraged because of the very small return, if any, when reconditioning charges are figured. October, November and December are months when cassia demand is good and thus it is well to maintain adequate inventories.

Clove—Both Zanzibar and Madagascar continued firm. Imports here have been dragging due to the dullness of our local market. Supplies are not heavy and replacement prices in both Zanzibar and Madagascar are firm.

Coriander Seed—Moroccan coriander seed declined ½c. to 12c. per pound last week. Yugoslavian coriander seed climbed from last weeks 8½c. mark to a span of 9c. to 10c. per pound.

Fennel Seed — Indian fennel seed climbed ½c., moving its span to 12c. to 12½c. per pound. Argentine, Czech medium and Roumanian remained steady and previous quotations.

Ginger—Jamaica ginger No. 2 rose to a price span of 49c. to 50c. over its previous overall figure of 49c. Number 3 rose to span of 48c. to 49c. over the previous 48c. Nigerian and African ginger remained steady at original listings.

Mace—Siauw mace siftings maximum price declined 5c. from $1.70 to $1.65. The minimum quotation remained steady at $1.45 per pound.

Niger Seed—This commodity made a ½c. advance with a climb from 11c. to 11½c. per pound.

Paprika—No news has been received concerning the shipments of new crop Spanish paprika as yet. Prices are well maintained abroad. Only odds and ends of top quality old crop are available on

For Late Market Developments, See Page 4

the spot. Lower grades are likewise pretty well distributed and at the moment nothing very cheap appears to be offering in new crop from Bulgaria and Roumania.

Pepper—Spot price for Malabar black pepper dropped 3c. from 42c. to 39c. per pound. Red pepper climbed from its previous span of 22c.-23c. to 23c.-24c. per pound.

Pimento—Spot stock of Jamaica have been whittled down to a very low level. Shipments from Jamaica are slow to come out. It appears that the Jamaican government believes that they can maintain present levels while marketing the current crop. New crop shipments of Mexican pimento are expected this month, but only in small lots.

Steel Shipping Barrels Output In July Is Below That of June

July production of steel shipping barrels and drums on an average working day basis was 16 percent below that of June, and 10 percent above shipments in July, 1954, according to the Bureau of Census. During the month the industry turned out 2,077,593 heavy-type steel barrels and drums, 939,671 light-type steel barrels and drums, and 6,854,348 steel shipping packages, kegs and pails.

Mexican Tax Regulations Explained in BFC Report

Private industrial enterprises meeting certain requirements in Mexico are eligible for tax reductions up to a period of ten years, according to a new report for US businessmen, released by the Bureau of Foreign Commerce.

Under existing legislation, the Mexican government may grant tax exemptions to the following types of enterprise:—Manufacture of goods not already produced in the country; manufacture of goods not produced in sufficient quantity to meet domestic consumer needs; industries providing services for economically important activities; assembly operations, provided Mexican-produced parts representing 60 percent of the products' direct cost are used; and industries exporting finished or semi-finished manufactures, provided at least 60 percent of the direct production cost represents Mexican manufacture.

Such enterprises are eligible for five-, seven-, or ten-year reductions or exemptions from import duties and surcharges, stamp taxes, gross receipts tax, and the normal income tax on industrial profits, the report states. In addition to a summary of government policy and laws on foreign investment, the new report, entitled "Establishing a Business in Mexico," contains up-to-date information on land and business ownership laws, forms of business organizations permitted, taxation, labor legislation, and other laws and regulations affecting establishment and operation of US business enterprises.

Tolerance Application Fees

—*Continued from page 5*

turned unless the petitioner indicates that he wishes to submit a supplement, in which case the deposit will be held by the commissioner, and the supplement shall be accompanied by a nonreturnable fee of $100.

● When a petition is withdrawn after filing and resubmitted within six months, it shall be accompanied by a deposit of $300, or by a deposit equal to the one originally submitted, whichever is smaller. If resubmitted after six months, it shall be accompanied by the deposit that would be required if it were being submitted for the first time.

● After a petition has been filed, any additional information or data submitted in support of it (i.e., any substantive amendment) shall be accompanied by a deposit of $300 or by a deposit equal to the one originally submitted, whichever is smaller.

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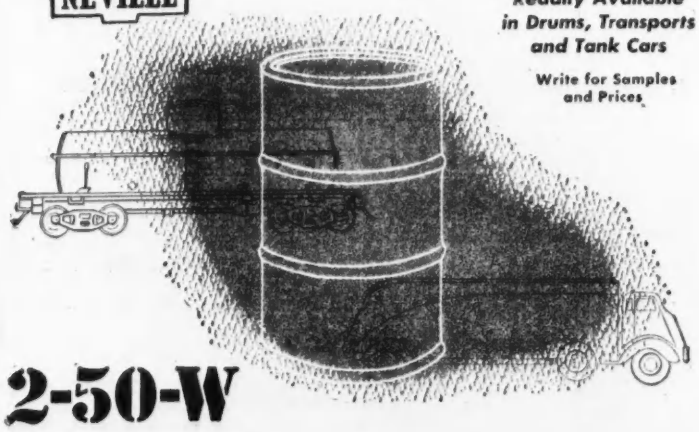

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Protective Coatings Materials

In spite of firmness in a number of materials in the protective coatings market, casein and barytes alone broke through earlier ranges and established new price levels. The political situation in Argentina made it difficult to obtain either quotations or actual shipments, resulting in a strong and upward movement. Dealers and consumers waited for a return to comparative stability, and for the start of production from the new season. The New Zealand material was steady and firm as previously quoted.

Barytes prices were moved upward to take effect October 1. Higher labor costs appeared to be the chief force behind the present increases. Shellac was firmer in Calcutta, but spot prices for bleached and orange grades were steady. Over recent weeks, sellers' views in Calcutta have risen and fallen fractionally, without producing a strong movement in either direction. Buying in this country was said to be moderately active.

Prime pigments moved in excellent volume at prices generally quite firm. The recent increase in antimony metal has not resulted in advances for the oxide, but the situation was still being watched by interested parties. Lead and zinc pigments moved well to a good interest from all consuming directions. Chrome colors were in demand, and were quite firm in price.

The market for petroleum hydrocarbon resins showed continued expansion, with increasing use noted in applications were good-colored, thermoplastic resins were needed. Vinyl resins moved well, and encountered a good demand from the direction of water paints. The plasticizer market was steady, with razor-edge competition encountered for all available business.

Synthetic Resins

Alkyds—Producers reported encountering a good demand throughout August, with sales holding up quite well so far in September. Material has been available in amounts entirely adequate for the market's needs.

Coumarone-Indenes—Consumer interest remained quite active, according to industry reports. Both production and consumption of coumarone-indene resins have showed a substantial increase during 1955 over the totals of the last few years, according to reports of the Tariff Commission.

Petroleum Hydrocarbons — Producers found the market continuing to give evidence of expansion. Increasing use was found in applications where good-colored, thermoplastic resins are needed, it was noted. Supplies have been maintained at entirely adequate levels.

Vinyls—Demand remained quite good, most producers agreed, stating that sales appeared to be noticeably ahead of last year's, thus far. Substantial amounts of vinyls have been going into water paints it was stated.

Prime Pigments

Aluminum Paste, Powder—Shipments of atomized and grained aluminum powder during July amounted to 762,000 pounds, according to the Census Bureau. This compares with a total of 2,232, pounds in July, 1954. Flaked powder shipments came to 311,000 pounds in July, down from the 358,000 pounds reported for July, 1954. Aluminum paste shipments in July were reported at 1,306,000 pounds in July. The total for the same month in 1954 was reported at 1,253,000 pounds.

Antimony Oxide—The recent increase in antimony metal has not been translated into higher quotations for the oxide. Pigment demand has been quite good in general and has included an active call for antimony oxide. Supplies were rated as entirely adequate for the market's needs at the present.

Chrome Colors—Prices remained steady throughout the week, but exhibited a good deal of strength. Buying has been done in good volume, it was reported. Producers were fairly well satisfied with the market's ability to maintain its present speed during the weeks just ahead.

Lead Pigments—The present good rate of sales was coupled with a firm undertone in price listings. Makers of lead oxides found buying above that of some thirty days back, and believed that demand would remain good for most of the balance of the year. Use by automobile manufacturers also came up to expectations, it was stated. With the metal occupying a strong position, all price quotations for related pigments were firm at existing levels.

Synthetic Iron Oxides—Producers reported being satisfied with the present rate of demand, and some noted that their shipments appear to be significantly ahead of last year's. The overall good business activity, together with the active pace in the paint industry specifically, has been the cause of a very healthy market outlook. Prices were firm and steady at present levels.

Zinc Pigments—In the wake of the recent advance for zinc metal and dust, pigments were unchanged but firm. Producers were uncertain as to whether there would be any change as an aftermath of the metal increase, and as yet have taken no action. The market was adequately supplied to take care of the present moderate inquiry.

Lacquer Materials

Dioctyl Phthalate — Tight supplies of phthalic anhydride did not prevent the market for dioctyl phthalate from being adequately supplied, it was noted. With the present good rate of demand for DOP, however, the makers stated that they were shipping all of their output. Sales were reportedly made at previously established quotations, with razor-edge competition encountered in this market.

Sebacates—Producers were fairly well satisfied with present market conditions and with the outlook for the balance of the year. Material was reported moving in good volume into consuming channels. Prices were steady throughout the week and were not expected to change in the immediate future.

Fillers and Inerts

Asbestos—Millboard volume has fallen off somewhat, it was reported by observers in the industry, and competition has been quite keen as a result. Sales of saturated paper have increased during the past two months, although production still exceeds demand. Orders for commercial asbestos paper have diminished somewhat, it was stated, with all available business keenly sought.

Imports of asbestos into the United States from Canada during April, 1955, came to 48,976 tons, according to the Census Bureau. Total imports into the country during that month totaled 51,681 tons. Canadian production in June, 1955, was reported at 91,530 tons, up from the 78,960 tons produced in June, 1954.

Barytes—Upward revisions in prices were announced to take effect on October 1. The new quotations for the refined, white, water ground, material, bagged, in carlots, shipped from E. St. Louis, Mo., was $45 per ton, an increase of $3.40. The same material on an ex-wharehouse, New York, basis, was raised to $65.10 per ton, up $5 from the earlier listing. Higher labor costs appeared to be the chief force behind the present increases.

Natural Resins

Copal, Dammar Gums—Quotations on the local market were well maintained by reason of a good buying demand combined with a firm tone from the origin. Consumers in European countries have been active, particularly over the past months, and have added a good deal of strength to the market. Spot supplies were generally considered adequate for day-to-day needs.

Shellac—Prices took a noticeable upturn at the source during the past week, but this firmness did not bring about a change in previously quoted prices for bleached or orange grades. Over recent weeks, sellers' views in Calcutta have risen and fallen fractionally, without producing a strong movement in either direction. Buying in this country was said

For Late Market Developments, See Page 4

Price Trends

Advanced
Casein, Argentine, 1c. per lb.

Reduced
None

Comparative Price Indexes
(100=1949 average)

Last week	Prev. week	Last month	Sept. 24, 1954
97.23	97.23	97.22	97.05

(For Current Prices see Page 9)

to be moderately active right at the present.

Miscellaneous Materials

Asphalt—Shipments of roofing asphalt during July amounted to 5,231,993 sales square, according to the Bureau of the Census. This compares with a revised shipments total of 6,950,470 for the previous month. Asphalt sidings shipments in July totaled 91,892 sales squares, down from the 108,851 sales squares reported in June. Saturated felts shipments reached 69,185 tons in July, below the revised total of 109,404 tons in June.

Casein—The political disturbance in Argentina affected the casein market by interrupting the flow of shipments to consumers, and making the obtaining of quotations difficult. Current quotations for duty-paid, delivered New York shipments ranged from 24¼ cents per pound, in carlot quantities, up from an earlier price of 23½ cents.

The current strong and upward trend was expected to continue over the weeks immediately ahead, but with the situation after that less clear in outline. Production in Argentina should start in a few more weeks, and this situation was certain to have a significant effect on the market.

Tallates—Cobalt tallate production during 1954 amounted to 1,510,000 pounds, it was stated in a preliminary report of the Tariff Commission. Lead tallate production came to 1,748,000 pounds during the same year. Manganese tallate output amounted to 964,000 pounds.

Naval Stores

Rosin, Gum

(USDA, per 100 lbs.)

	Fri. Sept.16	Mon. Sept.19	Tues. Sept.20	Wed. Sept.21	Thur. Sept.22
Drums—					
H	...	...	...	$8.43	...
K	$8.55	...	...	...	*8.50
N	...	...	$9.00	...	...
WG	8.52	...	9.20	...	8.60
WW	9.40	$8.68	8.76§	8.57	...
Bags—					
K	8.65	8.75	...	...	...
M	8.45	...	...	...	...
N	8.45	8.45	...	...	...
WW	8.92	...	...	...	...

Tankcars (for week ended Sept. 16)—M or better, $8.22§; N, $8.23§; WG, $8.26§; WW, $8.36.

Sales, USDA

1.268*	440*	751*	1.382*	239*

New York

(per 100 lbs., c.l., Friday)

B through N, $9.55; WG, $9.60; WW, $9.70.

Turpentine, Gum

(USDA, per gal., 7.2 lbs.)

Price	.56	.56	.559§	...	...
Sales	8.000¶	4.000¶	16.000¶	...	...

New York, Friday, per gal. 7 lbs., tankcars, 63½c., l.c.l. 75c.

*Drums equivalent. ¶Gallons. §Average price.

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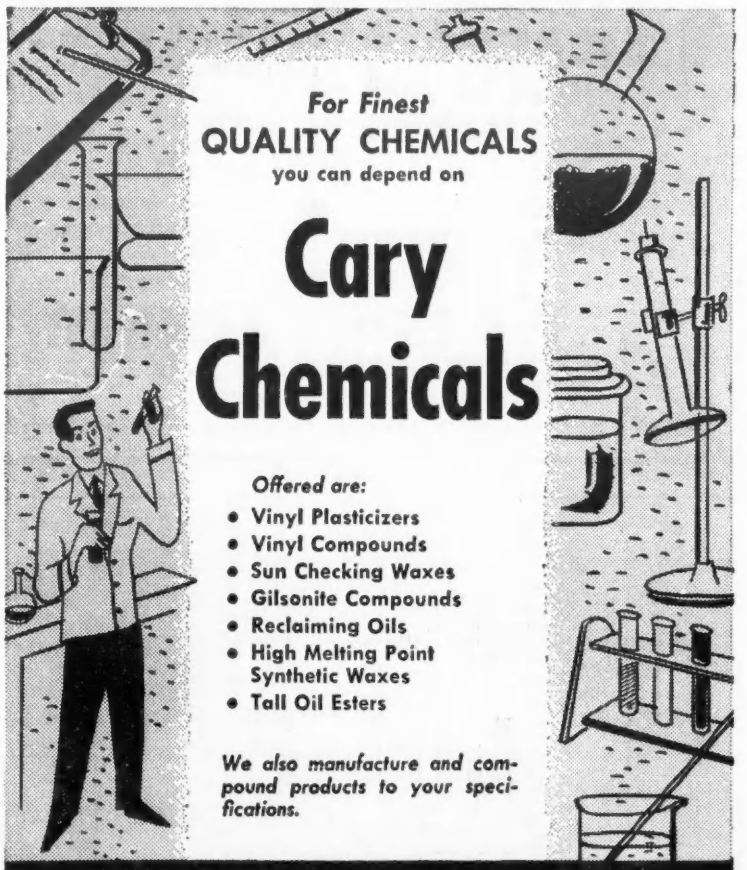

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	Sp. Gr. 20/20°C	Pour Point °C	Viscosity Centistokes 20°C	Temp. (°C) for 1000 stukes Viscosity
Mono-esters of:				
Octanoic Acid	0.862	−73	5.0	−73
Pelargonic Acid	0.865	−57	5.4	−73
Capric Acid	0.863	−57	6.9	−73
Lauric Acid	0.863	−32	9.5	−73
2, 4-D Acid	1.153	−40	59	−32
Di-esters of:				
Phthalic Anhydride*	0.981	−48	74	−42
Succinic Acid	0.933	−73	16	−64
Maleic Anhydride	0.940	−65	21	−58
Adipic Acid	0.928	−73	18	−70
Azelaic Acid**	0.917	−73	25	−69
Sebacic Acid**	0.915	−65	27	−68
Diglycollic Acid	0.962	−65	30	−53
Tri-ester:				
Phosphate	0.910	−73	17	−68

* "DIOP" is an outstanding all-purpose vinyl plasticizer, now approved for non-toxic applications as in food wrappings.

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Send for INDOIL Technical Bulletin No. 22 for further data.

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Pittsburgh Plate Appoints Hainsfurther Plant Chief

Robert M. Hainsfurther has been appointed manager of Pittsburgh Plate Glass Company's $34,000,00 plate glass plant now under construction at Cumberland, Md., according to an announcement by Ralph V. Reisgen, general manager of plate glass production for the firm.

Mr. Hainsfurther joined Pittsburgh Plate as a trainee at the Creighton, Pa., plate glass plant in 1930. Following service in the various manufacturing departments, he was appointed supervisor in the bending and tempering operations and served in that capacity during World War II. He was appointed superintendent in the tank department at Creighton in 1944. During the last six years he has served as assistant plant manager and in that capacity has been in charge of plate glass manufacture at the Creighton plant. Preliminary construction work on the Cumberland plant started last fall and foundations for the plant buildings are now being installed. Initial production from the new plant is expected by July, 1956.

Asphalt Products Facility Being Built in Puerto Rico

Placco Puerto Rico has begun its plant in Catano, San Juan, Puerto Rico. Production will start in mid-January. Placco will manufacture, under license from Pioneer Latex & Chemical Company, Middlesex, N. J., a line of latex, rubber and asphalt products — asphalt roofing and other waterproof and protective coatings, adhesives for the building trade, the shoe trade and the paper bag trade, automobile undercoatings, carpet backings.

Placco will have available in bulk storage all of the required asphalt penetration grades to supply asphalt road surfacing formulations to any specifications. A Placco plant is already in production in Cali, Colombia, and negotiations are in progress for additional plants in Cuba, Mexico and Venezuela.

Borden Dept. Announces Development of Thickener

A new polyacrylate thickener for use with paint latexes and resin emulsions has been developed by the Polyco department of Borden Company's chemical division. The product is called "Polyco 296-W."

The product is said to have an exceptional thickening effect on natural latex, Buna N rubbers, butadiene styrene, GR-S latex and most polyvinyl acetate and other synthetic resin emulsions. It introduces no undesirable odor or color into compounded products and causes no syneresis and coagulation. There is no separation, and approximately neutral pH permits use with sensitive emulsions. Viscosities are unusually stable over long periods of time, according to Borden.

Transport Issue Backed

—Continued from page 3

contract carriers in the coastwise trades to regulation by the commission. However, contract carriers on the Great Lakes would continue to have the benefit of the exemption applicable to transportation of dry bulk commodities by contract carriers in non-oceangoing vessels on international waters.

"Repeal of the exemption also would not affect the separate exemption applicable to transportation of liquid cargoes in bulk in specially designed tank vessels. Nor would it disturb the right of contract carriers to seek exemption of transportation which, by reason of the nature of the commodities or requirement for special equipment or for other reasons, is not competitive with rail or motor common carriers.

"In the end, this repeal will have no effect on private carriers; it will leave common carriers unaffected except to the extent they might have engaged in transportation of bulk commodities under the exemption provision; and it will expose contract carriers to competition by requiring publication of actual rates."

National Petroleum Ass'n Makes G.B. Hunter Pres.

G. B. Hunter, president of Quaker State Oil Refining Corporation, Oil City, Pa., has been elected president of the National Petroleum Association. Mr. Hunter succeeded A. W. Scott, president of Wolf's Head Oil Refining Company, Oil City, Pa. He also was re-elected NPA treasurer.

Paul R. Beck, of Pennsylvania Refining Company, Butler, Pa., was elected first vice-president. Mr. Beck had been second vice-president. Rex S. Blazer, of Ashland Oil & Refining Company, Ashland, Ky., was elected second vice-president.

Spencer Elects Director

Dr. Franklin D. Murphy, chancellor of the University of Kansas, has been elected a director of Spencer Chemical Company, Kansas City, Mo. Dr. Murphy fills an existing vacancy.

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Chemical Trade Seen Breaking All Records

—*Continued from page 3*

mounting expansion abroad. In general, the extent to which further advances in productivity can be pushed—in the form of increased efficiencies and technological advances, as well as diversification of products and distributive channels—will largely determine the competitive position of individual producers, it was added.

Wholesale Price Rise Seen

Moderate upward pressures on chemical wholesale prices are anticipated for the remainder of the year, it was stated. The division cited the following outlook for a number of important specific chemical as illustrative of the character of the industry for the remainder of the year:—

Revised estimates for 1955 indicate a level of 5,800,000 long tons for elemental sulfur and 16,000,000 short tons for sulfuric acid.

It is anticipated that chlorine production this year may top 1954 output by about 10 percent.

Caustic soda output this year is expected to exceed that of 1954.

Although little change from the 1955 first half record level is anticipated in the second half of this year with respect to production and use of phosphorus and phosphatic chemicals, continued growth and possible expansion in 1956 are expected.

A marked increase in the 1955 output of hydrogen peroxide is indicated as well as substantial additions to capacity.

Chromium chemical production this year will surpass that of the 1954 level and probably approximate the 1953 output of some 108,000 short tons.

Acetylene and high purity oxygen output in 1955 will markedly exceed production in 1954.

Argon Demand Due to Top '54

Continuing demand for argon this year will surpass last year's by about 10 percent.

Although shipments will pick up seasonally in the fall and early winter, total fertilizer activity during the second half of 1955 will not be quite as high as that of the first six months, when the spring peak occurred.

About 527,000 tons of anhydrous ammonia will be added to capacity by the end of 1955, bringing total rated capacity to more than 4,000,000 tons per year.

Except for lead arsenate and benzene hexachloride, 1955 output and use of pesticides will exceed by far the levels of 1954. The value of pesticide exports will probably top $80,000,000 this year.

Revised estimates show that crude naphthalene output this year will far exceed production in 1954, possibly by as much as a third. Phthalic anhydride, too, will surpass substantially last year's output level with an exceptionally bright export outlook already evident.

Benzol production in 1955 will show a marked advance over the 1954 rate with output from petroleum sources exhibiting the largest proportional gain.

With a few exceptions such as xylol and creosote oil, the large volume cyclic intermediates are expected to show material gains in production as compared to last year.

Small Rise in Glycerine Output

Only a small increase in glycerine production is anticipated this year over the 1954 level.

The fast rate of population growth plus increasing public awareness of the need for proper medical care are continuing to contribute much to growth and expansion of the drug industry.

Continued high activity levels are anticipated for the second half of 1955, which should result in this year exceeding substantially 1954's output of 2,951,000,000 pounds of plastics and resin materials including cellulosics as well as 1954 sales of 2,618,000,000 pounds.

Sales of paint products this year appear headed toward new record levels which would top the previous 1953 peak of $104,000,000,000 by about 7 percent.

New rubber consumption may attain a record high of 1,440,000 long tons in 1955, surpassing the previous 1953 peak by more than 7 percent.

The ratio of synthetic rubber usage to total new rubber consumption has risen considerably so far this year, as compared to last year, largely as a result of increased natural rubber prices. This is expected to culminate in record synthetic rubber usage for 1955.

The maintenance of current levels of production by synthetic rubber facilities, under private ownership since May of this year, will result in output in excess of 900,000 long tons.

Synthetic Rubber Exports

Synthetic rubber exports for the first six months of 1955 have already surpassed annual levels for previous years, except for the 1944-46 end-of-war period, indicating a banner export year.

The Federal Reserve Board's production index for rubber products (1947-49=100), which was 128 in record 1953 and 115 in 1954, is expected to fall between 138 and 142 in 1955.

Rubber manufacturers' sales this year are expected to exceed the 1953 peak volume of $5,097,000,000.

The smaller number of production workers in the rubber products industry so far in 1955, as compared with previous periods, indicates a marked increase in productivity.

NY PVLA Will Hold First Meeting Of Its Fall Season on October 13

The New York Paint, Varnish & Lacquer Associaition has scheduled its first fall meeting for October 13 at the Biltmore hotel, New York. A social get-together will begin at 6:30 p.m., and dinner is scheduled for 7 p.m. Movies of the association's last sports outing at the Westchester Country Club will be shown.

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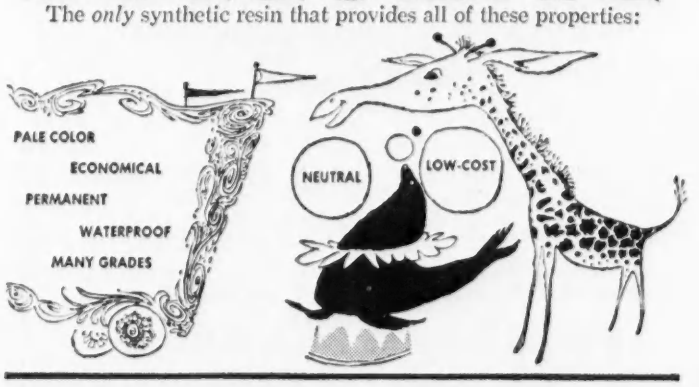

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Vinyl Stabilizers Made By Metasap Chemical Co.

Metasap Chemical Company, Harrison, N. J., a subsidiary of Nopco Chemical Company, has announced the development of four vinyl stabilizers for the vinyl floor tile industry. Two of these, "Metasap 633" and "M-245-B," are non-staining, non-lubricating stabilizers for vinyl floor tile compositions containing asbestos, the company stated. Both products import superior heat stabilization, it was noted.

The other two, "M-262-A" and "M-262-B," are low priced stabilizers for molded floor tile. A non-staining lubricator, "M-262-A" stabilizes well for light and heat, according to the makers. "M-262-B" is similar to "M-262-A," but is designed for situations where less lubrication is required.

Copper Exchange With Chile Proposed to Ease Shortage

Representative James T. Patterson of Connecticut last week proposed that the United States enter into an agreement with Chile for the exchange of surplus American agricultural products for Chilean copper as a means of relieving the copper shortage in this country.

He made the proposal in a letter to President Eisenhower in which he called attention to the difficulties experienced by many of the copper consuming industries because of lack of adequate supplies of the metal.

Esso Research Co. Sets Up Annual Chemistry Award

Establishment of an annual award of $1,000 and a medal for outstanding achievement in industrial and engineering chemistry was announced at the recent national meeting of the American Chemical Society in Minneapolis, Minn. The award, to be given by the Esso Research & Engineering Company (formerly the Standard Oil Development Company), will be known as "The American Chemical Society Award in Industrial and Engineering Chemistry, Sponsored by the Esso Research & Engineering Company."

Green B Toner Is Offered By American Cyanamid Co.

A new green toner, pigment green B "5-4010," said to combine unusually good dispersion with excellent alkali and lime resistance, was announced last week by the pigments division of American Cyanamid Company, New York. Developed principally for the paint and floor covering industries to provide a pigment having exceptional resistance to soaps, alkaline cleaners and lime plaster, this pigment is said to be equally valuable for the manufacture of rubber, printing inks and other products requiring fastness to soaps and alkalis.

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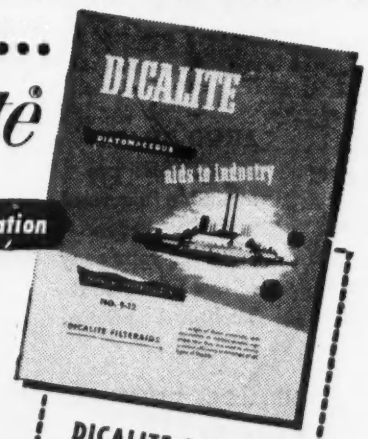

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Agricultural Chemicals

The nitrogen market was seasonally quiet, as inorganic products showed little domestic activity. Exports of some of the large volume items were said to have been a definite help in keeping the market from becoming overburdened with supplies.

Animal proteins were contraseasonally active, and dried blood and tankage were higher at Chicago, with firmer vegetable meals. Fishmeal and scrap were higher in the Chesapeake Bay area owing to hurricane weather and consequent loss of fishing days.

Potash and the phosphates were dull, and producers noted that business for fall mixing had not picked up as well as in past seasons. One phosphate producer in Florida remained strikebound, and as a result, higher grades of phosphate rock were in close supply. A substantial amount of output was estimated to have been lost this year as a direct result of the labor dispute which at one time or another affected all but three phosphate producers in Florida.

Pesticides were less active during the week, and large volume materials were being shaded at the sellers' level. A firm reduced prices for technical low gamma BHC effective September 20. Cube root was higher, however, and supplies were scarce. The advance in cube was expected to bring about upward adjustments in rotenone resins.

Price Trends

Advanced

Blood, dried, Chicago, 25c. per unit-ton.
Cube root, 1c. per lb.
Fishmeal, $1 per ton.
Fishscrap, $1 per ton.
Tankage, Chicago, 25c. per unit-ton.

Reduced

BHC, tech., low gamma, 0.05c. per gamma unit.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Sept. 24, 1954
111.21	110.05	110.78	110.59

(For Current Prices see Page 9)

Animal and Plant Foods

Ammonia, Anhydrous—Fertilizer grades for direct application showed little noteworthy activity during the week. Industrial grades sold well to consumers. Quotations held steady and without change.

Production of cokeoven ammonia liquor in July declined slightly to 3,824,205 pounds from 3,975,416 pounds produced in June, but was considerably higher than the 2,352,400 pounds produced in July, 1954, according to the Bureau of Mines.

Sales of ammonia liquor in July declined to 1,850,752 pounds from 2,015,875 pounds in June, but were higher than the 1,266,200 pounds in July, 1954. End-of-month stocks of ammonia liquor in July rose to 5,746,225 pounds over June's 5,080,773 pounds, and were about five times as much as the figure of 1,713,033 pounds in stock at the end of July, 1954.

Ammonium Nitrate—Tonnage moving offshore was said to have been a definite help to the market over the past few weeks. Domestic inquiry was dull and featureless. Prices held steady and unchanged.

Ammonium Sulfate—Production of cokeoven ammonium sulfate in July declined slightly to 157,711,676 pounds from 160,387,820 pounds produced in June, and was considerably higher than the 129,514,000 pounds produced in July, 1954, according to the Bureau of Mines.

Sales in July declined to 126,792,025 pounds from the 138,449,014 pounds sold in June. However, only 73,763,700 pounds were sold in July of 1954. Stocks at the end of July increased to 208,239,203 pounds from 187,472,659 pounds on hand at the end of June, and were considerably above the 156,116,486 pounds on hand at the end of July, 1954.

Animal Protein—The market was more active during the week. Dried blood rose 25c per unit at Chicago, as did tankage. Fishmeal and scrap were also higher by $1 per ton, owing to poor fishing caused by a long period of hurricane weather. Prices were nominal, and there was little offered in the Baltimore-Chesapeake Bay area.

Castor Pomace—Only scattered quantities were available due to infrequence of crushing operations. Price remained nominal at $40 per ton.

Cyanamide—Producers reported that the past defoliation season had been the best in some time. Granular cyanamide was currently moving well for tobacco weed control. Material for use as fertilizer was seasonally slow. Prices continued steady and unchanged.

Nitrogen Solutions—There was little in the way of fresh developments in this market. Business was about normal for the time of year. Supplies were ample at unchanged prices.

Phosphate Rock—Higher grades were in short supply, as one large producer in the Florida area remained strikebound. It was estimated in the trade that some 2,000,000 tons of phosphate rock production had been lost this year as a direct result of the strike which at one time or another this summer tied up all but three Florida producers.

Counterbalancing the loss of production was a decrease in exports of rock, which was accounted for by high transoceanic freight rates. This situation was said to have considerably helped the domestic supply position, as well as large above-ground stockpiles of material accumulated prior to the strike.

There appeared to be plenty of triple and normal super available for shipment at this time. It was pointed out that supervisory help had been able to make sizable shipments of finished products all through the strike, and that inventories of finished goods had not reached the danger point.

Meanwhile, there was no appreciable increase in fall demand for mixing, as was witnessed in previous years. This was attributed to the fact that buyers during the strike had built up inventories against a threatened work stoppage of lengthy duration.

Potash—Producers indicated that fall business has been slower to materialize than in the past few seasons. However, there was strong feeling that the bulk of fall business would be transacted for October shipment, as many of the small mixing companies including part-time formulators were expected to become active for immediate requirements at that time.

Sodium Nitrate — Industrial business continued strong. Agricultural demand was seasonally off for both domestic and imported nitrate. Sellers of Chilean nitrate reported prices stable, demand seasonal and supplies plentiful.

Los Angeles Market

Buying interest for inorganic materials was moderate with fall buying expected to show improvement in the near future. Listings were firm and unchanged with supplies adequate. Inorganic items were steadier. Domestic fish meals were scarce with little or no production due to strike conditions in Southern California cannery areas; spot resale meal higher at $2.40 per unit of protein; no import meal available to alleviate present supply position.

Pesticides

Bollworms continued to cause severe damage to cotton in two New Mexico counties, and pink bollworms were reported heavy in the coast bend area and along the Brazos river in Texas, according to the Cooperative Economic Insect Report.

Grasshoppers continued to cause some damage, and the European corn borer caused stalk breakage in South Dakota. Severe borer damage to pimentos was reported in Alabama. The alfalfa caterpillar was abundant in Nebraska and Utah.

Domestic consumption of pesticides continued to slow down as the season tapered off. Some of the larger volume pesticides were reported rather unstable at the formulators' level, and recent tenders for overseas shipment at low prices did not bolster the market.

Allethrin—Business was steady for the time of year, with prices unchanged. Supplies were adequate for current needs.

Cube Root—Active buying interest coupled with shortages in material sent prices 1c. to 3c. per pound higher during the week, according to supplier. New prices ranged from 27c. to 30c. per pound for 5 percent material, in carlots, as to seller. Technical and CP rotenone and resins were unchanged, although it was said that some upward pressure had been exerted on these products owing to increases in raw material costs.

BHC—A producer reduced low gamma material to 0.7c. per unit in carlots and 0.75c., less carlots, f.o.b. works, freight allowed.

Pyrethrum Extract—Liquid 20/1 currently was listed at $8.75 to $8.95 per pound, a price which has been in effect since a 40c.-per-pound increase in July. Other prices of long standing held without change.

For Late Market Developments, See Page 4

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Oils, Fats and Waxes

Feature of the oils and fats market last week was the heavy export demand for crude cottonseed oil which boosted prices sharply. The sharp advance of soybeans due to rainy weather, which delayed havesting also strengthened soybean and other edible oils. This resulted in higher prices for cottonseed, corn and soybean oils, while crude peanut was fractionally lower.

Cottonseed and soybean meals also were lifted drastically, especially for nearby delivery. Offers for nearby were withdrawn and quotations were more or less nominal.

Crude coconut was firmer and fractionally higher, though buying interest lagged at the higher level. Copra also was stronger, advancing $5 per ton.

Tallow and greases were firmer and slightly higher. Trading was limited despite active consuming inquiry as large buyers were bidding 1/8 to 1/4 cent per pound below asking prices which were not accepted. Short covering was active for extra tallow. Export business was reported light. Tallow oil was higher, with the basic material, while grease oils were steady, but unchanged.

Crude menhaden oil advanced sharply under a good volume of export business. This was reflected in refined grades which were lifted fractionally. Linseed oil was firmer and quotations were slightly higher. Stocks for nearby delivery continued light and firmly held, while futures were shadeable. Demand for oiticica was spotty, with light trading reported at unchanged quotations. Offers of tung oil were limited and the market was more or less nominal.

Trading in vegetable waxes was restricted to actual needs. Carnauba grades were unchanged and steady. Refined beeswax was stronger, reflecting the high cost and scarcity of crude. Refined yellow slabs were lifted 2 cents per pound. Japan was on spot, was inactive and easier, declining 2 cents per pound.

Vegetable Oils

Coconut—Crude was stronger, reflecting the strength of copra. Tankcars were offered at 11¼c. per pound, f.o.b. Pacific coast, prompt shipment and 12¼c., New York.

Corn—This market was firmer and higher. Crude was sold at 11¾c. per pound, tankcars, f.o.b. mills. Refined oil also was higher at 15¼c. per pound, tankcars, New York, prompt delivery.

Cottonseed—Bleachable cottonseed oil futures were stronger, advancing sharply reflecting the active export demand for crude cottonseed oil and the higher soybeans market. Prices were sharply higher, reaching new highs for this move. This brought short covering on a scale upward. Trading was fairly active, with trade interests and commission houses on both sides of the market. Tenders on September contracts were increased to 58 contracts, which were stopped.

Exporters were heavy buyers of crude, with trading up to 11⅜c. per pound, tankcars, in the Valley and 11¼c. to 11⅝c. Texas. Offerings were light, as many mills withdrew from the market. In the southeast the market was nominal at 11½c., mills.

CCC sold 9,695 tons of refined cottonseed oil for export at 13.04c. to 13.16c. per pound, f.o.b. Houston Texas, and 11.70c to 12.58c. per pound, Wilmington, Cal.

The Department of Agriculture allocated under PL 480, 10,000 tons of refined cottonseed oil and 5,000 tons to Spain. Greece was due to purchase 5,000 tons of refined cottonseed oil or refined lard oil on Tuesday.

Sales and prices of prime summer yellow cottonseed oil futures in tankcars (60,000 pounds) on the N. Y. Produce Exchange for the week ended September 23 follow:—

	Sales	Cents per pound High	Low	Close
October	61	13.59	12.95	13.59@13.65
December	216	13.65	13.00	13.63S
January	4	13.64	13.61	13.65@13.74
March	93	13.76	13.09	13.75@13.80
May	120	13.75	13.08	13.73@13.78
July	72	13.81	13.11	13.75@13.80

Total sales, 571 contracts.

Memphis.—Crude cottonseed oil quoted at 11¼c. per pound, tankcars, Memphis and soybean oil 10½c. bid, Decatur, prompt. Active export for cottonseed oil. Mills not offering. Cottonseed meal nominal about $60 per ton, sacked, Memphis; hulls quiet and quoted $6.50 per ton, bulk and $11 sacked.

Linseed—This market was firmer especially for prompt delivery because of limited available supplies. Raw oil was raised to 13.7c. per pound, tankcars, Minneapolis, September delivery and first half October to 13.4c. while second half was unchanged at 13.2c. November was lifted to 12.8c.; December-February, 12.4c. and March-August, 12.3c., same basis. New business was reported restricted to prompt needs, with consumers taking larger quantities against current contracts.

Flaxseed—Trading was reported fair. Market unchanged and steady.

Minneapolis.—Trade was featureless on flaxseed and prices held steady. No. 1 seed cashed at $3.07 a bushel for carlots and $3.02 in trucklots, Minneapolis basis. Flaxseed continued to come in from North Dakota stations but it about dried up from southern Minnesota and South Dakota. Some traders were of the opinion that North Dakota offers will dry up soon, too, because producers are dissatisfied with prices (12c. under loan level). Purchases of seed in the spot cash market totaled 50 cars. To-arrive bookings amounted to 126 cars and 103,000 bushels in trucklots. Arrivals of flaxseed for all accounts totaled 1,025 cars last week, compared to 1,063 cars the previous week and 403 cars in the corresponding period a year ago. Shipments from Minneapolis totaled 107 cars as against 154 cars the preceding week and 189 cars last year. Exporters bought 105,000 bushels of flaxseed from the Commodity Credit Corp. at Minneapolis the past week, paying $3.02½ a bushel, barge or rail car, Minneapolis, and $3.08 a bushel for 200,000 bushels, f.o.b., steamer, Duluth-Superior.

Receipts and shipments of flaxseed, in bushels, were as follows:—

	Receipts 1953-54	Receipts 1954-55	Shipments 1953-54	Shipments 1954-55
Past week	1,793,750	714,000	187,250	330,750
Since Sept. 1	5,300,750	3,625,750	633,500	1,120,000

Oiticica—Buying interest lagged. Prices were unchanged and steady. Liquid was quoted at 13¾c. to 14c. per pound, tankcars, New York, prompt and later delivery. Drums were unchanged, ranging from 15c. to 15¼c. per pound, spot, depending upon quantity.

Olive—This market remained steady and quotably unchanged. Demand was fairly active. Spanish oil was maintained at $2.40 to $2.50 and Tunisian, $2.30 to $2.40 per gallon, drums, duty paid, as to quantity. Offers for shipment were restricted to Spanish oil as other sources have withdrawn from the market.

Peanut—Light sales were reported in crude at 17½c. per pound, tankcars, f.o.b. mills in the southeast. Offerings later were available at ¼c. less. Refined oil was unchanged at 20½c. per pound, tankcars, New York, prompt delivery.

Soybean — Stronger soybeans market, stiffened oil and prices advanced fractionally. Offers were limited as sellers limited offerings at the close. Crude was sold at 10½c. per pound, tankcars, September, Decatur; 10⅜c. sales and bid for October through June. Refined salad was higher at 13¼c. per pound, tankcars, New York, prompt delivery.

Sales and prices of crude soybean oil futures on the N. Y. Produce Exchange in tankcars (60,000 pounds) for the week ended September 23 follow:—

	Sales	Cents per pound High	Low	Close
September	17	10.16	10.00	Expired
October	25	10.34	9.93	10.34S
December	35	10.39	10.05	10.36@10.40
January	7	10.40	10.35	10.35S
March	36	10.41	9.99	10.39S
May	21	10.43	10.02	10.42@10.47
July	11	10.24	10.11	10.43@10.47

Total sales, 152 contracts.

Tung—Trading was light, with sales on the basis of 25½c. per pound, tankcars, New York, prompt delivery. Domestic oil was nominal at 24½c. f.o.b. mills. CCC last week rejected bids for 6½ tankcars.

Miscellaneous

Castor Beans—This market was merely nominal at $115 per ton, c. and f. for

For Late Market Developments, See Page 4

Price Trends

Advanced

Acid, linseed, 1/5c. per lb.
Copra, $5 per ton.
Cottonseed meal, $3 per ton.
Greases, ¼c. per lb.
Lard, cash, ¾c. per lb.
Oil, coconut, crude, ¾c. per lb.
Corn, crude, ½c. per lb.
refd., ½c. per lb.
Cottonseed, crude, ⅜c. per lb.
refd., ⅜c. per lb.
Fish, refd., 3/10c. per lb.
Menhaden, crude, ⅜c. per lb.
Soybean, crude, ⅜c. per lb.
refd., ⅜c. per lb.
Tallow, acidless, ⅜c. per lb.
Soybean meal, $5 per ton.
Tallow, inedible, ⅛c. per lb.
Wax, bees, yellow, refd., 2c. per lb.

Reduced

Oil, oleo, ½c. per lb.
Peanut, crude, ¼c. per lb.
Wax, Japan, 2c. per lb.

Comparative Price Indexes

(100=1949 average)

Last week	Prev. week	Last month	Sept. 24, 1954
105.84	103.04	104.01	98.76

(*For Current Prices see Page 9*)

prompt shipment. Offers were reported light.

Imports of castor beans and castor oil at New York and Philadelphia last week were as follows:—

	Pounds	
	Beans	Oil
Last week	1.005.900	700.000
Previous week	250.050	4.464.000
Corresponding week, 1954.	159.900	2.034.800
Total this year	60.099.360	60.548.000
Corresponding period, 1954.	77.265.450	31.300.800

Cocoa Butter—Market was quiet and nominal at 54c. to 59c. per pound, spot, according to quantity.

Copra—Firmer tone featured this market. Prompt shipments were stronger and advanced to $155 per ton, c.i.f. Pacific Coast.

Fats and Greases

Greases—This market was stronger, advancing fractionally. Yellow grease sold at 7¼c. per pound, tankcars, delivered, with up to 7½c., asked, depending upon quality. Choice white grease was higher at 8¾c. per pound, and not all hog at 8½c., same basis. Export inquiry was moderate, with trading spotty.

Lard—Futures were firm and higher. Cash lard advanced to 10¾c. per pound, drums, Chicago.

Oleo Oil—Export business was reported slow, with domestic business light. Extra was quoted at 14½c. to 15c. per pound, drums, as to quantity and seller. Oleo stearine was unchanged at 10¾c. to 11c. per pound, barrels, same basis.

Tallow—Trading was reported light at slightly higher prices, though buying interest was active, with bids at ⅛c. to ¼c. below asking prices, which were turned down. Export business was moderate, with shorts showing interest in extra. Bleachable fancy was quoted at 8⅛c. per pound, tankcars, delivered; extra, 7⅞c.; special, 7⅝c., No. 1, 7¼c., and edible, 9¾c., same basis. Fancy guaranteed was firmer at 9⅜c. per pound, drums, f.a.s., and extra, 9c., same basis, for late October-November delivery.

Fish Oils

Cod—Lack of offers of new crop oil, also of buying interest kept this market entirely nominal. Buyers' ideas were reported around 10c. per pound, exdock, for replacements, with sellers' views about ½c. higher. Stocks on spot were scarce and merely nominal at 11c., per pound, rums.

Refined Fish—Trading was fairly active for prompt needs. Prices were higher, reflecting the strength of crude menhaden. Light pressed oil was advanced to 10.3c. per pound, tankcars, New York basis. Crude menhaden sharply higher, with trading for export at 8¾c. per pound, f.a.s. Gulf ports. Tankcars, f.o.b. works, Atlantic coast, were lifted to 8½c. per pound, prompt shipment.

Los Angeles.—With little or no production of crude tuna oil on the local market, due to strike conditions, quotations remained nominal at 6c. per pound, f.o.b. San Pedro, tankcar basis. No trading was reported. New crop sardine oil, Southern California production, was bid 8½c. per pound, f.o.b. San Pedro. Alaskan herring oil remained in extremely limited supply with quotations nominal at 8½c. per pound, f.o.b. Seattle, tankcar basis.

Cake and Meal

Cottonseed Meal—Most mills have sold a good volume of meal ahead, and offerings were not pressing on the market. Exporters have been buying heavily for shipment October through December, which helped stabilize the market. Forty-one percent was higher, but nominal at $60 per ton Memphis, for nearby and $55. Alabama and Georgia, $56. Alabama points for September-October shipment. Light rains throughout the southeast have slowed business to some extent.

Linseed Meal—Good consuming demand and export interest kept the market firm.

Minneapolis.—Linseed meal prices ruled firm the past week on active demand from domestic handlers and export inquiry. Covering of short sales by some operators also was a strengthening factor. Extracted linseed, 36 percent protein, was quoted at $59 a ton for balance of 1955 shipment and at $56.50 to $57 a ton, bulk, Minneapolis, for January-forward. Expeller meal, 32 percent protein, was quoted by jobbers at $63 a ton for balance of 1955. Crushers priced expeller meal at $50 a ton for January-forward. Shipments continued heavy.

Shipments of linseed meal, in pounds, were as follows:—

	1955-56	1954-55
Past week	17.640.000	13.440.000
Since Sept. 1	56.160.000	41.760.000

Soybean Meal—Export interest in soybeans, coupled with a good demand for meal by feed manufacturers caused the market to strengthen for nearby shipment. Processors report they are completely sold up for September production and sharp advance in beans boosted nearby shipments. Forty-four percent meal, unrestricted billing, was nominal at $60 per ton Decatur, spot and $52.50 scattered October through September. Southeastern production meal was firm at $53 per ton bulk f.o.b. Mississippi Valley points, October shipment.

Waxes

Beeswax—High cost and scarcity of crude grades continued to feature this market. Refined was firmer and yellow slabs were advanced 2c. per pound in some directions. Slabs were quoted at 66c. to 68c. per pound and bricks, 67c. to 69c. per pound, according to quantity. Bleached U.S.P. was unchanged and strong. Trading was reported confined to prompt needs.

Carnaubas—Trading was restricted to actual requirements. Market was fairly steady, while replacements from Brazil continued strong. Ceara, crude ranged from 56c. to 58c. per pound and Parnahyba, crude, 58c. to 60c., as to quantity. Yellow was scarce and the firmest on the list. No. 1 Ceara was held at $1.03 to $1.05 per pound and Parnahyba, $1.06 to $1.06 according to quantity.

Japan—Local market was unsettled and lower. Stocks on spot were reduced 2c. per pound, and available at 42c. to 44c. per pound, depending upon quantity.

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Greece Offering to Purchase 11,000,000 Lbs. of Seed Oil

Greece is inviting bids for 11,000,000 pounds of seed oils which it has been authorized to purchase with funds made available under the agricultural trade development and assistance act, the Department of Agriculture has announced.

The bids are to be submitted to the purchase director at Athens by September 27. Further details concerning the terms and conditions under which bids are invited may be obtained from the Greek Government's Foreign Trade Administration, 729 Fifteenth street, N. W., Washington, D. C.

Wollastonite Agents Named by Cabot

The white pigments division of Godfrey L. Cabot, Inc., Boston, has appointed two new agents for sales of wollastonite in the United States. The Robert F. Sheahan Company, Memphis, Tenn., will be responsible for sales of wollastonite in the middle-south area, in a territory which includes Tennessee, west of Nashville; Arkansas, Louisiana, Mississippi and Alabama. Deeks & Co., Atlanta, Ga., will be sales agents for wollastonite in the southeastern United States, in an area which includes eastern Tennessee, including Nashville; Georgia, North and South Carolina.

Argentine Tung Shipments To US Are Seen Near Limit

The Foreign Agricultural Service reported last week that 1,322,760 pounds of tung oil cleared Argentina during August for shipment to New York. With this shipment the agreed maximum quota of 21,800,000 pounds that may enter the United States from Argentina in the crop year ending October 31, 1955, is believed to be virtually filled.

United States imports of tung oil from Argentina during the period November, 1954-June, 1955, amounted to 19,333,245 pounds. This volume plus Argentine exports to this country during June-August reported at 2,380,968 pounds, which presumably would enter the United States during July-September, would bring the total quantity from Argentina to 21,714,213 pounds. In addition to the above clearance for shipment to New York, Argentina also cleared 720 tons (1,587,312 pounds) during August for shipment to Montreal.

McKay-Davis Chemical Corp. Facility Is Damaged by Fire

Fire damaged the McKay-Davis Chemical Corporation plant in Toledo, Ohio, last week at a loss estimated at $500,000. The blaze destroyed the engineering, packaging and office section of the plant. Nearly destroyed was the machine shop where salvage of some tools may be possible. The flames set off a series of explosions. Most of the walls of the one-story structure, however, were left standing.

CMRA Looks Into Products

—Continued from page 7

in 1941, added "Nor'way" cooling system chemicals as companion products to its line of antifreeze "to smooth out our sales curve."

To compete with ethylene glycol base antifreeze, which was then being introduced on the market, CSC, Mr. Smith related, introduced a brand of its own, "Peak" antifreeze, in 1941. The so-called permanent type, he said, today accounts for well over half of all antifreeze sales.

Following the war years, a period of extreme raw material shortage and allocations, he stated, CSC came to the conclusion that competitive conditions in the antifreeze business were "right around the corner." So, in 1946-47 it conducted a market analysis to determine the total market for antifreeze. These figures were brought up-to-date three years later.

To get an "accurate reflection of the actual antifreeze market," he continued, the company in the winter of 1951-52 decided to go straight to the consumer for information. The information was gathered from a panel made up of thousands of car owners in all parts of the country. Among the facts turned up was that about 40 percent of car owners use non-evaporative antifreeze for more than one year, some for as much as two or three seasons.

"I believe that successfully marketing a line of consumer products such as ours," Mr. Smith concluded, "is largely a matter of attitude. Sometimes the facts may be unpleasant and discouraging unless you are fortunate enough to be the leader in your own particular line. But with facts you can be realistic, and when you are realistic and have the facts, you can get a lot of extra mileage from your sales and advertising dollars."

FOR SALE

Complete Crystallizing & Filtering Unit installed 1951, used on Epsom Salts, capacity 1670 lbs. crystals per hr.
Swenson Continuous Rubber Lined Vac. Cooling Crystallizer.
Feinc 6' dia. Horiz. Filter S/S and Steel Construction.
Shriver 30" plate & frame Filter Press.
2100 gal. S/S Horiz. Tank; Pumps; Tanks; Kettles.

All units in very good condition.

1—Blaw Knox 110 gal. Autoclave 2000 psi & jacketed.
1—Davis Inconel Heat Exch. 195 sq. ft.
6—Surface Condensers & Receivers 100 to 175 sq. ft.
1—Carrier 8 Truck Dryer.
4—Devine Double Dr. Vac. Shelf Dryers, 17 & 20 shelves 59" x 78".
1—Double Drum Dryer 4' x 9'.
8—C.I. Filter Presses, 12" - 30".
2—Sweetland Filters No. 10 & No. 12
1—Glasscote 750 gal. G.L. Kettle, coded for 75# Jack. pressure.
2—Pfaudler Reactors, 100 & 500 gal. G.L.

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2—Allbr. Nell 4x8 Atmos Drum Dryers.
1—Buffalo Vac. Drum Dryer, 24"x20"

CENTRIFUGALS AND CENTRIFUGES
4—Tolhurst 40" Suspended Type.
8—Centrifugals, 12", 20", 26", 30", 40" & 48" Steel, Copper, Stainless & Rubber.
6—Sharples No. 5A Stainless & #6.
2—De Laval Multi Clarifiers 300 & 301.

FILTERS
#2 Sweetland Filter 12 Stainless covered leaves
1—Vallez Filter #49 with 41 Stainless covered 44½" dia. leaves.
Gen. Amer. 2'x1' Rotary Vac. Filter.
Sperry and Shriver 6" to 36" iron & wood.
Sweetland & Oliver Filters.

KETTLES AND TANKS
Pfaudler 500 gal. Glass Lined Jack Reactor.
Pfaudler 250 gal. Glass Lined Jack. Kettle.
Dopp 350 gal. Agit. Jack Cl Vac Kettle.
2—Impreg. Units 30" & 36" dia. complete.
500 & 1,000 gal. closed Jack. Steel Kettles.
2300 gal. vert. agit. Jack. Steel Kettle.
1—250 gal. Lead lined Kettle.
Stainless, alum., copper. Glass lined, lead lined and steel kettles and tanks.

PULVERIZERS AND MILLS
2—Mikro Pulverizers #2TH & #2SI.
Abbe 37"x30" chrome-mang. Ball Mill.
Patterson Pebbie Mills, 6'x8', 6'x5', 30'x12".
Abbe 30"x30". Also Jar Mills.
#1 Raymond Autom. Pulverizer, 20 HP.
1—#00 Raymond Mill, 30 HP complete.
2—#0000 Raymond Mills.
Sturtevant #0, 18" hinged Hammer Mill.
Schutz-O'Neill #1 & 20" Pulverizers.
Williams #3 & 2XX Hammer Mills.
Ball & Jewell Rotary Cutters Lab & up.
Jeffrey 18"x18" single Roll Crusher.
Buchanan 5"x12" Jaw Crusher.
2—Robinson 18" & 22" BB Attrition Mills.
1—Lehman 4 roll WC., 12"x36" Steel Mill.
4—Lehman & Kent 3 Roll Steel Mills, 9" x32", 12"x30", 16"x40".
1—Monarch 9"x24" Steel Roller Mill, 3 pr. high. Also 7½x20, 4 Roll.
Hauchin 18"x30" 4 Roll Granite Stone Mills.
2—U.S. & Premier 1½ H.P. Colloid Mills.

MIXERS, SIFTERS & SCREENS
Lancaster 6' dia. Vert. Mixer 25 HP.
Kent 3 HP. continuous dry mixer.
Baker Perkins double arm Mixers, 100 & 50 gals. Also single arm Mixers.
Blystone 3000# horiz. spiral mixer.
Day Brighton 20 gal. Change Can Mixers.
Read 50 & 100 gal. double arm mixers.
Read 80 qt. vert. mixer, 3 speed.
Orv. Simpson 20"x48" Rotex Sifter
Tyler 3'x5' Vibratory 2 deck Screen.
10—Dry Powder Mixers, 50 to 3,000#.
3—Day 8, 15 & 40 gal. Pony Mixers.
13—Portable Elec. Mixers, ¼ to 3 HP.
6—Lead and Paste Mixers to 150 gals.

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Kux 2½" dia. Tablet Machine.
Tablet Machines, Single Punch & Rotary.
Anderson & French Oil Expellers.
Kane 2 H.P. Gas Boilers, 200# pressure.
3—Stokes and Day Powder Fillers.
Filling Machines & Labelers.
Pneumatic Scale Automatic Capper.
1—Howe Mogul barrel and bag packer.
2—Worth 12"x12"x12" Vac. Pumps.
8—Devine, Buffalo, Stokes Vac. Pumps.
Conveyors & Elevators.
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Centrif., Rotary, Duplex & Triplex Pumps.

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1—Pfaudler 66" x 72" Vert. Glass lined New 1200 gal.
1—Pfaudler 78" x 96" Vert. Glass lined 2300 gal.
2—1500 gal. 316 S/S 5' x 9' Vert. 20 PSI.
1—7500 gal. 316 S/S clad 12' x 6' x 5'6" cone.
1—750 gal. 316 S/S 5' x 5' cone bottom.
3—4' diam. 316 S/S Conical Hoppers.
2—3' x 32" 316 S/S Conical Hopers.
1—2' x 3' Horizontal Closed 316 S/S.
1—2½' x 3½' Horizontal Closed 316 S/S.
2—3' x 3½' Horizontal Closed Nickel Clad
2—7' x 11' Vert. Steel Brick & Lead lined.
1—7' x 7'4" Vert. Steel Brick & Lead lined 50 psi.
1—6' x 6' Vert. Steel Brick & Lead Lined.
1—4' x 5'6" Vert. Steel Brick & Lead lined, 50 psi.
4—4' x 8' Hor. Steel ASME 25 psi.
1—4' x 5'6" Hor. Steel ASME 25 psi.
2—3' x 7' Vert. Steel ASME 25 psi.

PUMPS—CENTRIFUGAL
1—Lawrence Vert. 316 S/S 70 gpm 157' hd 20 HP.
1—Lawrence Vert. 316 S/S 35 gpm 107' hd 7½ HP.
1—Lawrence Vert. 316 S/S 50 gpm 107' hd 5 HP.
1—Lawrence Vert. 316 S/S 10 gpm 27' hd 1 HP.
3—Karbate Series 5A 60 gpm 60' hd 5 HP.
9—Karbate new Impellers.
1—I.R. 1000 gpm Series 5CRVL 40 HP.
2—I.R. 1000 gpm Series 5CRVL 30 HP.
2—I.R. 650 gpm Series 5CRVL 30 HP.

CONVEYORS
3—Link Belt 316 S/S 18" x 12', 18" x 10' 18" x 7' twin screw.
1—Link Belt Steel 10" x 16' twin screw.
1—Link Belt 316 S/S 6" D. x 16' closed screw.
9—Link Belt 12" Troughing Belt Conveyors 15', 20', 30', 35', 45', 50' open and closed with drives and motors.

REACTOR—CONDENSERS
3—4' x 13' closed 316 S/S Reactors or Convertors with 109—3" x 6' 316 S/S tubes 150 psi.
1—Pfaudler 250 gal. Hastelloy C Reactor.
2—Pfaudler Monel Heat Exchanger 62 sq. ft.
9—Karbate Heat Exchangers 370, 188, 70, 16.4 sq. ft.

DRYERS
2—Buflovak 6' x 5'6" Monel Drum Flakers NEW with drives and motors.
1—Rietz 30' "Thermoscrew" Conveyor Dryer 304 S/S NEW with drive & motor.

MISCELLANEOUS
1—I.R. Jet Refrigeration Unit complete 208 Tons 65.5° F. to 60° F.
1—I.R. Jet Refrigeration Unit complete 136 Tons 50° F. to 45° F.
1—Patterson 7'6" Conical Blender Rubber lined with drive & 15 HP motor.
20—Link Belt Reducers and drives from ¾ HP to 15 HP.

* All motors are 3/60/440 V. explosion proof.

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DRYERS
3—Link Belt Roto-Louvre 7'5"x20', 6'4"x24', 3'10"x12'
2—Hersey 4'x30', 3'x20' S/S Hot Air Rotary.
2—Struthers-Wells 5'x15' nickel Rotary Vacuum.
2—Buflovak 32"x52" atmos. double drum 316 S/S.
1—Devine 2'x4' Vacuum Drum, 316 S/S.
1—Stokes 138H Vacuum Shelf with 10—44"x40" shelves.
3—Devine double door Vacuum Shelf 17 and 20—59"x78" shelves.
3—Stokes Rotary Vac. 3'x15', 30"x8', 18"x42".
1—Devine Rotating Vacuum 5'x10'.
6—Rotary Dryers 5'x30', 5'x40', 4½'x50', 6'x40', 8'x72'.

MIXERS
9—Day Cincinnatus double arm 660, 250, 150, 100 and 50 gals.
3—Baker Perkins 100, 50 gal. double arm, jacketed.
7—Sprout Waldron S.S. jacketed, Powder, 67, 27 and 10 cu. ft.
1—Struthers-Wells 6'x9' S/S. Rotating, jacketed.
1—Patterson 6' dia. Steel Conical, with 5 HP motor.

MILLS
1—Patterson NEW 6'x8' Porcelain lined Mill 50 HP motor.
3—Abbe Paterson 6'x8' unlined Ball Mills.
1—Patterson 3½'x4' jacketed, steel Ball Mill.
1—Mikro Pulverizer #4TH.

CENTRIFUGES
1—Sharples PN14 Super-D-Canter, 316 S/S.
2—Sharples C-20, C-27, Super-D-Hydrators, 316 S/S.
3—Sharples P16 Monel and S/S. Pressurtite Super Centrifuges.
4—Tolhurst AT&M 40", 36", 32", Suspended steel, stainless.
1—Bird 40" Suspended, rubber covered, imperforate basket, M.D.
1—AT&M 36" center-slung, rubber covered, perforated basket.
1—Tolhurst 26" suspended, rubber covered, perforated basket, M.D.

REACTORS, CONDENSERS, TOWERS, TANKS
1—2500 gal. 316 S/S jacketed Reactor.
8—4000 gal. 7'x14' Steel jacketed, agitated Kettles with 10 HP Turbo Mixers.
4—3000, 6000, 7500, & 10,000 gal. S/S Tanks.
2—Aluminum 1400 & 5500 gal. Tanks.
1—Pfaudler 750 gal. glass lined, jacketed Reactor, alkali and acid lining.
2—Pfaudler 100 gal. glass lined, jacketed, agitated Reactors.
1—Buflovak 800 gal. 347 S/S jacketed, agitated Reactor.
2—S.W. 4½'x20', 7½'x40' S/S Reactors or Converters.
5—S/S Towers 7'x25'6", 4'x30', 12"x14'.
25—Atmospheric S/S Heat Exchangers 715 & 477 sq. ft.
22—55 to 2400 sq. ft. S/S & Admiralty Heat Exchangers.

FILTERS
2—Oliver 8'x10' Monel Rotary Vacuum.
1—Swenson 4'x2' Nickel Rotary Vacuum.
1—Feinc 5'x3' Monel Rotary Vacuum String.
1—Niagara 110-20 Filter with 12 S/S leaves.
2—#3 Sweetland S/S Filters, 12-25" dia. leaves 75 sq. ft.
5—#3, #5, #7, #10, #12 Sweetland Filters.
4—Shriver 36"x36", 30"x30", c.i. Filter Presses, P&F, washing.

MISCELLANEOUS
1—Foster Wheeler Dowtherm Unit 4½ million BTU.
4—Orville Simpson Rotex Sifters 40"x120", 40"x84", 20"x81".
7—Stokes #DDS2 and "R" Tablet Presses.
7—Nash vacuum Pumps #H7, #H6, #L5, #L3, #4, #2.
7—Durco S/S Centrifugal Pumps 1" to 3".

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RECENT PURCHASES

1—Niagara #110-20 Stainless Steel Filter, 110 sq. ft.

2—14,000 gal. A. O. Smith Glass Lined Tanks.

2—Patt-Kelley St. St. Twin Shell Blenders, 5 & 10 cu. ft.

1—Bowen St. St. Spray Dryer, 5' dia.

2—W & P 100 gal. Sigma Blade Jacketed Mixers.

3—Sweetland Filters, #2, #5 #12.

2—Oliver 5'3" dia. x 8' face Continuous panel type Filters, vapor tight hoods.

1—Patterson 6'D x 8'L "DJ" Jacketed Steel Ball Mill, 40 HP Expl. Pr. Motor. Unused.

1—Rotary Kiln 6' dia. x 50'6" L x ½" shell.

1—Stokes 150 gal. St. St. Jktd. Vacuum Still.

1—500 gal. T316 St. St. Evaporator, with 145 sq. ft. coil.

1—Buflovak #6.5 Double Effect Stainless Steel Evaporator, 588 sq. ft.

1—Rogers 48" dia. St. St. Sanitary Vacuum Pan.

1—Goslin-Birmingham Quadruple Effect vertical long tube Evaporator, total 6965 sq. ft. copper tubes.

1—Conkey Triple Effect vertical long tube Evaporator, total 1900 sq. ft. copper tubes. UNUSED.

3—13 gal. T347 St. St. Autoclaves, 700# WP, 50# jkt. pr.

2—Blaw-Knox ½ gal. Stainless Steel Autoclaves, 2000# Pr., agit.

1—8800 gal. Horiz. Welded Steel Pressure or Vacuum Cooker, Agit., ASME.

2—Fitzpatrick Comminuting Machines, St. St.—Models D-6 & F.

1—Charlotte #50 Colloid Mill, 75 HP Motor.

1—Sharples 16P Pressurtite Centrifuge, St. St. Unused.

1—Lee 80 gal. St. St. Steam Jktd Kettle with double Motion Agitator.

1—Hope St. St. Single Piston Filler, type 18.

IN STOCK

STAINLESS STEEL TANKS

1—10500 gal. Horiz. T304—NEW.

1—6500 gal. Vert. Clad—Used.

1—4200 gal. T316, 6' x 20' x 5/16", heat treated.

1—2000 gal. T347 Vacuum Receiver with 15# jkt.

40—From 15 gal. to 1000 gal.

1—T316 Bin or Hopper, 6'9" x 6'9"x10' O.A.H., 275 cu. ft.

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BIRD CONT. CENTRIFUGE—36"x50" S.S. 304, COMPLETE.

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BALL MILLS—25 to 1,000 gallon.
CENTRIFUGE—Troy, 17", monel.
CONDENSERS—8, all monel, 50 sq. ft. Shell & Tube. Expansion Joint.
DRYER, BUFFALO—Double Drum, 32" dia. x 90", reconditioned.
FILTER PRESSES—24", cast iron & heresite.
HEAT EXCHANGERS—188 sq. ft. S.S. 304 tubes, steel shell; 25 sq. ft. all S.S.
MIXERS—D. A. SIGMA, Jktd. Steel and S.S. 50, 60, & 200 gallon.
MIXERS—DRY POWDER, 400, 600, 1000, 1500, 2000, & 3000 lb.
ROTEX SIFTER—40"x84", 2 deck, 3 H.P.
TABLET PRESS—Stokes, RB1, complete.
TANKS—2, Steel, horizontal, 25,000 gallon; 10'6"x39', welded dished.

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IN STOCK

CENTRIFUGES

Sharples Super Centrifuge.
Sharples C20, SS, Super-D-Hydrator.
Sharples C27, SS, Super-D-Hydrator.
Sharples PN14, SS, Super-D-Canter.

TOWERS

SS 18-8 Scrubber, 12"x15'.
SS 347 lined, Scrubber, 5'x18'.
6'x29' 21 trays, Stainless.
5'x24' 24 trays, Everdur.
7'x54' 20 trays, 150 PSI.
6'6"x40' 16 trays, 80 PSI.
3'x44' 18 trays, 300 PSI.
Karbate #22, packed, 19"x12' NEW.
4'x59' 23 trays, 160 PSI.
7'6"x41'7" Reactor, 160 PSI.
4'6"x40' 13 trays, 180 PSI.
2'x47' 20 trays, 200 PSI.
2'x47' 20 trays, 375 PSI.
3'x49' 28 trays, 425 PSI.
2'x37' 16 trays, 250 PSI.
5'x36' Scrubber, 240 PSI.

BOILERS

3—Kewanee Firebox Boilers, 305 HP, 125 PSI WP, Series 500, Model 590, ASME & Natl. Board stamped, New 1942.

MIXERS

100 gal. Readco, jktd. dbl. sigma blades.
170 gal. Ajax dbl. arm, power pump.
1050 gal. Paddle dbl. shaft heavy duty.
3900 gal. hor. jktd. 75 PSI paddle agitator.
29 cu. ft. Patterson Concial Blender.
67-27-10 cu. ft. SS Sprout Waldron Powder.
550 cu. ft. SS. jktd. rotating oscillating.

FILTERS

Oliver, 8'x10', Steel.
Feinc, 8'x12', string discharge.
Sweetland #12.

DRYERS

Roto-Louvre 705-20 SS heating coils comp.
Roto-Louvre 604-24 complete w/furnace.
Roto-Louvre 502-20 comp. w/furnace.
Roto-Louvre 310-12 heating coils, comp.
Rotary Vac. 5'x15' nickel clad.
Rotary Vac. 30"x8', Stokes 59AB.
Rotary 26"x8' oil fired with feeder.
Rotary 4'x27' oil fired, motor drive.
Rotary 5'x67' 4" lifters.
Rotary SS. 4'x30' complete.
Rotary Kiln 8'x125'x¾" firing hood.
Rotary Kiln 10'x200'x¾" oil & gas burners, comb. chamber, dust collecting system.
SS Spray, 10'x36', gas fired.

MILLS

Raymond #1 Automatic.
10'x48" Hardinge Ball Mill.
Raymond #40 Imp. Stainless.
5'x8' Kennedy Type M, w/disc feeder.
6'x8' Abbe & Patterson.

HEAT EXCHANGERS

Steel Tubes, 94 to 550 sq. ft. (5).
Adm. Tubes, 140 to 440 sq. ft. (7).

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MILLS—GRINDERS—CRUSHERS

4041 P39—Abbe Porcelain Lined Pebble Mill; 32"x32".
3745C—Two Patterson Buhrstone Line Pebble Mills; 6'x5' and 6'x8' complete with pebbles
M3-M101—Steel Ball Mill; 20"x44" with 3 HP motor.
3693—Steel Ball Mill 34"x38".
3443—International 8'x8' Porc. Lnd. Pebble Mills; 50 HP Gearmotors.
3789—Patterson Pebble Mills from 20"x30" to 6'x8'
3564—Abbe 50 gal. Porc. Lined Pebble Mill; 20"x30".
3800—Hardinge Conical Ball Mill with Titanite Liners; 10'x48" with scoop feed and accessories.
M14-D2—Patterson 5' x 6' Jacketed DJ Ball Mill; Chrome Manganese lined; 25 HP motor
M3-B100—Patterson 5' x 16' Jacketed Ball Mill; Chrome Manganese lined; 100 HP motor
M3-202—Patterson Byerlite Lined Ball Mill; 6'x8'; 50 HP.
4147 C9-10—Two Smidth Tube Mills 5'5"x20'; V belt drive
4147 C3-6—Four Gates Tube Mills; 5' x 22'
3655 W2— Gruendler Supermaster No. 1 Hammer Mill; 15 HP
4082 A1—Mikro Pulverizer Model 2 S1 Bronze Chamber; PD
3331—Mikro No. 2 TH screw feed with Pre-Breaker
3324 E2—Mikro No. 4 F Pulverizer; 15"x24"
McA15C1—Mikro No. 2 Type SCB chamber 7" .111½"; arr. for motor drive.
3868N-1—Fitzpatrick Model D Stainless Comminutator; cooling jacket
M10-202—Fitzpatrick Model K Comminutator with 20 HP motor
3705 L3—Fitzpatrick Homoloid Pulverizer; motorized
1001 N1—Williams Model NF Hammer Mill; 25" x 14"; requires 60 HP
3429 A7—Williams Hammer Mill 36" x 18"; requires 60 HP
3429 A-5-6—Williams Hammer Mill No. 4 18" x 48" requires 60 HP
4147 C14—Williams No. 6 Hammer Mill; 42" x 48"; V belt
M10-401—Prater Pulverizer Type DS 6 with 30 HP motor
3769—Jay Bee Model 2U Hammer Mill; 10¾" x 14" requires 20 HP
3429 A8—Gruendler Pulverizer 12" x 48" requires 150 HP motor
3192 A1—Gruendler Pulverizer No. 3 chamber 8" x 16"
3429 A9—Gump Bar Nun No. 40 Hammer Mill; 12" 40"; requires 60 HP
3545—Jay Bee Model A4 chamber 12" x 18" with 25 HP motor
M10-183—Jeffrey Swing Hammer Mill Type E 42"x36" for 100 HP motor.
M10-190—Riley Duplex Attritor requires 250 HP motor
3277—Robinson 24" Double Runner Attrition Mill; two 10 HP motors
3529W—Bauer 24" Double Runner Attrition Mill with two 20 HP motors
3120—American Ring Roll Crusher; 30" x 33" throat; 50 HP
4041 P49—Sturtevant Rotary Fine Crusher; Model "00"; 3000 Tons per hr.
4147 C13—McCully No. 10 Crusher; Belt & P.D.
3315 E2—Williams Ring Roll Mill; ring 3" x 10"; with 3 rollers 4" dia. arranged for motor drive
3293 N1—Raymond Imp Mill 9" x 18" with accessories
2383—Raymond Model No. 00 Aut. Pulverizer with accessories
3853-S—Raymond No. 50 Stainless Imp Mill with 50 HP motor
4066G—Raymond No. 47 Imp. Mills; 50 HP motor
4062 K2-5—Four Raymond No. 32 Imp. Mills; 20 HP motors
MWK-1—Sprout Waldron Roller Mill 2 pair high; 9" x 18"; 10 HP
JR-1—Allis Chalmers Flaking Mill 20"x24" with 25 HP motor
4041 P43-44—Two Robinson Unique 4 Roll Mills; 7" x 24"; 20 HP
4042 K3—Sprout Waldron 2 Pair High Roller Mill; 9" x 18"; 10 HP
3425 D2—Munson Rotary Cutter Size "0" 3½" x 11" feed opening
M10-403—Rietz Disintegrator Model RD8 with 5 HP motor
M10-404—Rietz Disintegrator Model RD 12 with 20 HP motor
M10-402—Mitts Merril No. 14 Shredder; motorized

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Struthers Wells Vulcanizer 5' x 20' with 5/8" thick shell; 150 PSI-ASME code with quick opening, hydraulic operated door.

AUTOCLAVES—VULCANIZERS

4094—One Gal. Steel Autoclave 800 PSI; gas fired; agitated ¾ HP XPL vari speed
R4-504—Cast Steel Autoclave 250 gal.; 350 PSI; 4'x5'; Jktd. Agitated.
3259GS—Steel Hor. Autoclaves with tracks; 66" dia. x 14'7" long
V4-310—Adamson horizontal welded steel Vulcanizer 84" x 86"
V4-311—Jackson & Church Steel Vulcanizer 6'6" x 65' with tracks and quick opening door
R4-226—Hi Pressure Steel Autoclave; 300 PSI; 6' x 21'; Jktd. Agtd.
R4-301—Globe Rotary Kier; 14' Diameter with 15 HP motor
R4-251—Struthers Wells Jacketed Steel Rotary Autoclave or Digester 100 PSI-ASME; 9'6" x 12'; with 7½ HP motor
R4-506—McNeil Digester; Vertical 6'7" x 11'5"; Jktd. 185 PSI; Agit. 40 HP
V4-500—Laboratory Vulcanizer horizontal; 36" x 51"; 150 PSI; simplex door
V4-401—Horizontal Vulcanizer 6' x 10'; 125 PSI-ASME; Simplex Door
V4-402—Horizontal Vulcanizer; 6' x 42' with quick opening door
V4-403—Horizontal Vulcanizer; 5' x 21' good for 125 PSI
V4-600—Vertical Vulcanizer; 24" x 42"; pneumatic lid
V4-602—Horizontal Steel Pressure Autoclave; 71" x 70"; 125 PSI
V4-603—Struthers Wells Vulcanizer; 150 PSI-ASME; 5' x 20'
V4-604—Williams Vertical Pot type Tire Vulcanizer; 4' x 12' with hydraulic ram
R4-531—Bethlehem Stainless Lined 50 Gal. Autoclave; 2000 PSI 24" x 28"
4059E-1-3—Three A. O. Smith Stainless lined Pressure Tanks; 135 PSI; 20,000 Gal. 10'x30'
4164—American Sterilizer; 30" x 48" x 84" Jacketed; Double Door; steel carriage on track
4203—American Sterilizer; 42" x 48" x 96" Jacketed; Double Door; steel carriage on track

SPECIAL TANKS

3413—Stainless 3500 Gal. oval (milk truck type) Tank 6' x 4' x 22' with 18" manhole
4168—Stainless 3500 Gal. oval (milk truck type) Tank 4' x 6' x 21' insulated; 18" manhole; 4 cradles
3762 L20—Stainless 2120 Horizontal Tank; 76¼" dia. x 116" long from dished head to head; with stainless agitator; 1 HP
3762—L10—Stainless 1160 gal. Horizontal Tank; 66" dia. x 86" with Stainless agitator and 1 HP motor
3777/S 1-3—Stainless Horizontal Tanks; 56"x28" 400 gal. dished ends; 16" manhole
3168 D16—Lead lined 400 Gal. Tank; 4'x4'
3424 K12—Lead Lined 600 Gal. Tank; 58"x53"
3799—U2—Glass Lined Vertical Tanks; 400 Gal. good for int. vacuum; 80" dia. x 13'6"; 2 manholes 18"; cone bottom to 4" outlet
3853 S5—1200 Gal. Horizontal Steel Pressure Tank 5' x 8' dished heads; with 11" x 15" manhole; 50 PSI-ASME
2684—F1—4700 Gal. Steel Storage Tank with coils; 70" dia. x 23'8" with 18" manhole
3853 S5—Horizontal Steel Pressure Tank; 50 PSI-ASME; 1200 Gal.; 60" x 96"
R4 504—Cast Steel Autoclave; 250 Gal.; 350 PSI; 4'x5'; Jktd.; Agtd.
4059E 1-3—Three A. O. Smith Stainless Lined Pressure Tanks; 135 PSI; 10' x 30'; 20,000 Gal.

TABLET EQUIPMENT

3673 L30—Colton No. 1 PT Aut. Tablet Triturate Machines 2600 per M
P13-101—F. J. Stokes Model F Single Punch Tablet Press; motorized
4008—Colton Type 5½ T Table Press; 3"x1¼" die; 5 HP motor
2026 F-11—Stokes Rotary D1—16 Station Tablet Press
4095—F. J. Stokes RB2 Rotary Tablet Press; 16 head; 1½ HP motor
1302 W19—Colton Rotary No. 10—35 Tablet Press; 800 Per M ¾"x1¾"
4042 K1—Komarek-Greaves Briquetting Press; 20 HP; 2000 Pellets per M
4199 Stokes Model RD3 Rotary Tablet Press with 3 HP variable speed motor
4042 K2—Stokes Rotary Tablet Press DD2; 31 station; 15/16" x 1-1/16"

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1—Stainless Steel 300 gal. jkt'd Reactor.

5—Baker Perkins 1000 gal. Jkt'd Double Arm Mixer.

1—Bowen Stainless Steel Lab. Spraydryer.

2—Stokes Model 43A Stainless Steel Granulators.

1—Stokes Stainless Steel Rotary Vacuum Dryer, 3 ft. x 12 ft.

75—Downington Stainless Steel Heat Exchangers, 650 sq. ft.

9—Stainless Steel Heat Exchangers 15 to 100 sq. ft.

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1—Stainless Steel 4000 gallons Storage Tank.

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3—J. H. Day Brighton Mixers, 175 gallons.

4—Baker Perkins Double Arm Jacketed Mixers, 100 gallons, Sigma Blades.

1—Banbury Midget Size Mixer.

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1—Pfaudler Glass-lined Rotary Dryer, 4 ft. x 45 ft.

1—Swenson Walker Stainless Steel Jkt'd Crystallizers 20 ft. Long.

2—2500 gal. Steel Pressure Tanks w/coil agitator.

1—Stokes Rotary Vacuum Dryer, 30 in. x 8 ft.

1—J. P. Devine Rotary Vacuum Dryer, 5 ft. x 25 ft.

3—Mixing Equip. 3000 gal. Steel Jkt'd Turbo Agitated Kettles.

3—Buflovak Single Door Vacuum Shelf Dryers, 20 shelves.

1—J. H. Day Stainless Steel 200 gal. jkt'd Double Arm Sigma Blade Mixer.

3—Stainless Steel Jacketed Kettles, 380 gallons each.

1—Oliver Rubber-lined Vacuum Filter, 3 ft. x 6 ft.

1—Shriver 42" x 42" Cast Iron Plate and Frame Filter Press, 60 chambers.

1—Stainless Steel 250 gal. Jkt'd Kettle.

1—Sperry 36" x 36" Plate and Frame, Cast Iron, Frame Press, 40 chambers.

1—Bird Suspended Type Centrifuge, 48" Basket with Plow and motor, basket perforated.

2—6' x 40' Rotary Dryers ½" Shell.

3—A. O. Smith Stainless Steel Heat Exchangers, 1500 sq. ft. each.

1—650 gal. Steel Jktd. Pressure Kettle w/Turbo Agitator.

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5—Cyclotherm C-90 Package Boilers 125 psi capacity 3000 lbs. Steam per hr.

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Roto Louvre S S Rotary Dryer, 4' x 30'
Hersey 4' x 30' S S Rotary Dryer, complete
Day 5 gal. S S jktd. vac. Mixer, sigma arms
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1—Sparkler model 18D4 stainless filter.

2—Kingsford 2" NEW nickel heavy duty centrifugal pumps, 250 GPM, 125# pressure.

1—Shriver 36"x36" cast iron filter press, closed delivery. 29 chambers.

2—NEW Milton Ray S/S proportioning pumps, 52 GPH at 60# pressure.

2—Pfaudler 800 gallon glass lined jacketed and agitated kettles.

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1—Sweetland #11 stainless filter, 642 sq ft.

1—200 gallon jacketed agitated nickel reactor.

1—150 gallon Pfaudler jacketed agitated glass lined reactor.

1—Unused 25HP Philadelphia gear reducer, 60 to 1 ratio.

1—Lot new Haveg 6" and 8" pipe 8'x10'.

1—Lot new Lapp pyrex Pfaudler valves and fittings.

2—Blaw Knox 250 gallon jktd & agtd autoclaves or reactors.

4—New steel tanks, 3,000 to 10,000 gallons.

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For Sale—Rotameter F & P, 10 GPM, S.S. new; Brown Electronic Precision Indicator; Brown 10% Throttling Controller 0-400 P.S.I.; Foxboro Recorder 0-100°C; Esterline-Angus Recording A.C., Ammeter; Carius Oven, Precision Scientific Cat. 1426; Gould, Centrifugal Pump 1½C with G. E. 1½ HP motor; Flexo-Disk 3-inch expansion joints for vacuum service; Sta-Warm electric dispensing tank for resins, solder, glue, etc., 5 gal. OPD 747.

For Sale: 2—40" Suspended Perforated Centrifugals; 150 sq. ft. S.S. T304 Heat Exchanger; 2500 gal. S.S. T304 agitated Tank; 48" Rogers S.S. T304 Vacuum Pan; 78" S.S. T304 Cube Blender; 2—14,000 gal. glass lined Tanks. H. Epstein, Best Equipment Company, 617 Davis Street, Evanston, Illinois. DAvis 8-0926.

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Enclosed Stainless steel tank, 1500 to 2000 gallon capacity, jacketed or unjacketed. With stuffing box for stirrer. Please state price and condition. OPD 754.

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NEW STAINESS STEEL MIXERS DOUBLE RIBBON from 200 to 2,000 lb. capacity.
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PATTERSON 4x5 BUHRSTONE lined PEBBLE MILLS.
BUFLOVAK DOUBLE DRUM DRYERS 32"x52", 36x84, 42x120.
SMALL AND LARGE BALL MILLS and PEBBLE MILLS.
MIKRO ITH, 2DH, 3TH PULVERIZERS.
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Wax Salesmen wanted for petroleum waxes only by wax specialty outfit selling to variety of industries. Only interested in men thoroughly conversant with wax industry and consumption of paper and polish fields on specialty products, such as Precision Casting, Food Dipping, Dairy Wax, etc. OPD 750.

POSITIONS WANTED

Sales Training, Government Sales, Clinical Research and field sales offered in diversified background in pharmaceutical industry. Age thirty-three. Desire position in Sales Department with opportunity to utilize my experience. Currently employed. Willing to relocate. OPD 752.

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Aluminum Tax Plan

—Continued from page 3

ranted and applications on file for necessity certificates will be denied, Mr. Flemming said. These include applications of Kaiser Aluminum Corporation involving an investment of $104,384,000; Reynolds Metals Company, $181,500,000; Revere Copper & Brass, Inc., $52,777,000; and a joint enterprise sponsored by St. Joseph Lead Company and Pittsburgh Consolidation Coal Company, $85,000,000.

Mr. Flemming said that if it is decided later to reopen the goal for aluminum applications now pending will be considered in the order in which they were filed. He noted that aluminum production has doubled since 1950 when the program of government assistance was first undertaken.

Polak's Frutal Works Has Catalog

Polak's Frutal Works, Inc., Middletown, N. Y., has compiled a new twenty-two page perfume catalog which lists its line of essential oils, terpeneless oils, synthetic aromatics, specialties and perfume bases.

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FORK LIFT—7500# Hyster, pneumatics, new engine.

VACUUM PUMPS—Nash Hytor MD673, 623, H7, Ingersoll Rand 16 CFM 2 stage.

ROTARY DRYERS—12"x22', 40"x21' (used) 40"x30' (new) 39"x30' (new) complete w firing hoods, discharge hoods, oil burners.

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3—Day 15 gal. Pony Mixers, m.d. S.S. cans.
3—Haskins Cap Tighteners, m.d.
2—½ H.P. Port. Agitators, A.C., b.g.
2—Stainless Steel Hersey Rotary Dryers, 5'x26' and 6'x23'.
2—8'x125' Rotary Kilns.
3—Buflovac 42x120, 32x120 Atmos dbl. Drum Dryers, complete; 1—American 24x36, 2—54"x70" and 1—40"x60" Bird Continuous Centrifugals, S S Solid bowls.
1—Day #30 Imperial jack. Mixer, 75 gal.
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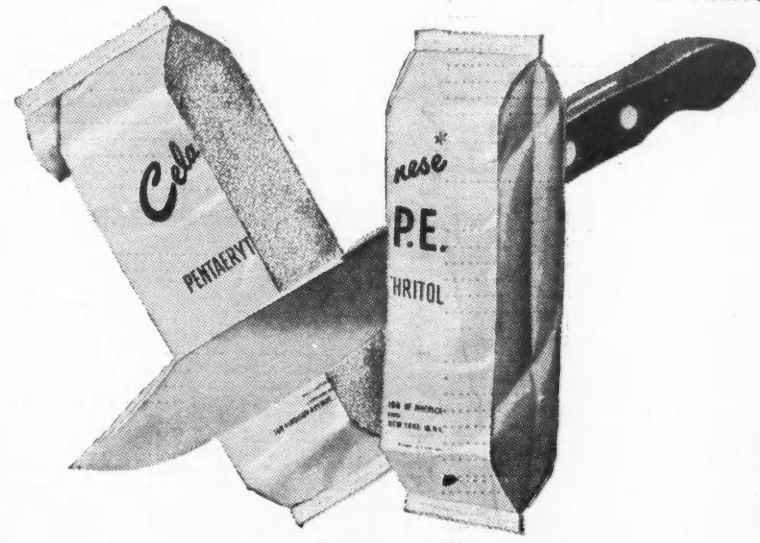

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